

# HALLOWEEN AT WPI

With the arrival of Halloween last Friday, secretaries turned into hobos (right), witches appeared everywhere, and Techies got set to celebrate Halloween (to chase away the evil spirits, of course)



PHOTO BY ALAN C. BRIGHTMAN

HALLOWEEN  
PHOTOS PAGE 10

# WPI Newspeak

The student newspaper of Worcester Polytechnic Institute

Volume 14, Number 23

Tuesday, November 4, 1986



## Erroneous Transcript Key Revised

by Mark Osborne  
News Editor

Until this week, each time that a student requested a transcript from the registrar's office, a cover sheet would be supplied along with the grade report. This would then be sent to the proper address. For an unknown period of time, a cover sheet was sent out which had a glaring error, one which made the WPI Plan seem incomprehensible to anyone not intimately familiar with all of its details.

The cover sheet was originally designed to explain the WPI Plan, the grading system, as well as the credit distribution for course and project work.

Unfortunately, this cover sheet did not serve this purpose. The second sentence of the sheet read as follows: "In order to graduate, students do not have to complete a prescribed number of courses; instead, they must demonstrate competency in their major area of study by successfully passing a competency examination as well as an advanced level in the major area, and by completing satisfactorily a sufficiency requirement in the humanities if their major area of study is in science engineering, business, or economics, or in engineering or science if their major area is in the humanities."

There was no mention of the MQP or IQP.

Upon comparison of this cover sheet with one which was distributed previously, it appears likely that a key phrase was omitted

when it was retyped. Both the earlier and the most recent version were identical except for this particular phrase.

In the earlier version, the fragment "completing two separate projects (a minimum of one unit in each) of which one must be at" . . . was present between the words "as" and "an" in the later copy. (Successfully passing a competency examination as well as . . . 'an advanced level').

This omission caused the sentence to read improperly, with the reader left wondering what was missing. After being notified of the error, Registrar Joe Mielinski, who has only recently assumed his position, proceeded to draft a replacement for the inadequate form.

The new transcript key, actually a pamphlet, features improved organization and fully explains the qualifying projects, competency exam, distribution requirements, and grading systems.

The new requirements for graduation with honors, as well as transfer and advance placement credit, which were omitted in the original copy.

There is a short section describing the WPI Plan, in which there is no longer the phrase "students do not have to complete a prescribed number of courses." In fact, 12 units of work had to be completed before the competency examination could be taken.

The Plan is described as "a new academic program . . . (in which) projects and independent study are major features."

## WPI Proposes Closing of West Street

by Jim Goodell  
editor-in-chief

President Strauss has announced that WPI has drafted a proposal to close the 1,150 foot section of West Street connecting Salisbury Street and Institute Road.

The closing is intended to unite the east and west halves of the campus which are now separated by the street.

Before West street can be closed, the college must get the approval of the Worcester City Council. Under state law, any permanent abandonment requires a two-thirds vote by the Council, and this is only after the DPW commissioner has declared that the street is no longer needed for public purposes.

The college intend to bring the proposal before the Council in a few weeks, after meeting with members of the local community.

This is not the first time that WPI has proposed the closing of the section of West Street. On April 16, 1974, the City granted a 90-day trial period of the closing. The trial period was extended until January 21, 1975, when WPI withdrew its petition to close the street.

The decision to withdraw was made because of pressure from local residents and merchants who opposed the re-routing of traffic. At the time, Salisbury Street was Route 9 and carried much of the east-west traffic in the area. Now Highland Street (Route 9) is the major artery from the Lincoln Square area to Park Ave.

According to President Strauss, he has met with members of the City Council and some local merchants on an individual basis and has received no significant objections to the current proposal. "The case that we're presenting," said the President, "is really one of enlightened self interest." He feels that in this case the Council will agree that WPI has been good for Worcester so, "What's good for WPI is good for Worcester."

Under the proposed plan, the street would be closed from Institute Road to the Project Center; the Salisbury Street side of West Street would then become the main entrance to the campus, and a traffic circle would be put in the Salisbury Labs area. The entrance to the quad parking lot would be between Sanford Riley and Daniels Hall, and the exit would be between Alumni Field and Morgan Hall.

In the February 4, 1974 issue of Newspeak, which announce the re-opening of West Street after WPI withdrew its petition, the following paragraph was printed. (continued on page 15)



This part of West St. will disappear under the new proposal.

PHOTO BY CHRIS PATTER, ASSOCIATE PHOTO EDITOR



One of many Army helicopters that transported WPI Army ROTC cadets from the baseball field to Ft. Devens last Friday is shown seconds after takeoff.

PHOTO BY JON WAPLES, PHOTOGRAPHY EDITOR

## Captain Midnight Attended WPI

by Jeffrey Gornstein

An exclusive interview with Captain Midnight in the October 1986 issue of Consumer Electronics magazine revealed that the Captain, whose real name is John MacDougall, attended WPI.

MacDougall, a 25 year old satellite television dealer in Florida, became famous when on April 27, he illegally jammed HBO for four and a half minutes during an early morning showing of The Falcon And the Snowman. His message to the country protested HBO's instatement of signal scrambling which was ruining his business.

According to MacDougall, "I majored in physics in college. I went to Worcester Polytech Institute in Worcester, MA. I dropped out after 2 years." After dropping out of WPI, he taught himself about the satellite industry and opened his own dealership.

MacDougall is the only person known who has intentionally disrupted satellite programming. This was considered to be a serious offense by the Federal Communications Commission which spent hundreds of hours tracking him down. The Captain was fined \$5,000 and sentenced to a year of probation.



# EDITORIAL

## Today's Vote May Cramp Your Style

This is not intended to be a you-should-vote-because-its-the-American-thing-to-do editorial. That's been said enough. If you do not realize what a privilege voting is by now, its doubtful that anything written here will change your mind in time for today's election.

Whether you plan to vote or not, the results of today's state election are going to affect your day-to-day life. The Massachusetts mandatory seatbelt law is a good example. The decision made on today's referendum question will affect your freedom and safety.

In 'The Body Politic' this week, Steve Landry writes on the freedom of religion which is being challenged by the views of some political candidates. This is only one of the major issues surrounding candidates which may have a dramatic affect on our lives.

Besides the candidates' views, the referendum questions being voted on address serious legislation. The eight Massachusetts referenda questions are not trivial. They address the regulating or prohibiting of abortion, government aid to private schools, limiting state tax rate increases to wage rate increases, the mandatory seat belt law, voter registration by mail, federally administered health care, and environmental issues of acid rain and hazardous waste.

The decision made by Massachusetts voters on these questions will, in some cases, have an effect on those outside of the state. If the state recommends a national health care program, it is possible that the U.S. Congress will take action which will affect the quality and availability of medical care nation wide. Voter registration by mail will, no doubt, have an effect on future elections.

It may be easy to take for granted the freedom that we have been given to vote in this election, but it is difficult to ignore the effect that the outcome will have on our day-to-day lives.

### 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.

## Newspeak

(USPS 535-480)

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

	editor-in-chief Jim Goodell	
news editor Mark Osborne	faculty advisor Thomas Keil	features editor Lisa Alpers
photography editor Jon Waples	business manager Christina Tondora	advertising manager Jim Webb
sports editor Peter Yap	circulation manager Chris Pater	graphics editor Joe Sedor
	associate editors Jack Spadaro Chris Pater Jeffrey S. Goldmeer	

### STAFF

Jody Bobbit	Noah Forden	Joshua Smith
Jim Calarese	Brian Freeman	Alan Spidle
K. Christodoulides	Steve Landry	Chris Sweet
Rob Day	Stephen Nelson	Brian Teague
Tim DeSantis	Sami Seyouri	John Whyte
Andrew Ferreira	Rob Sims	

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.

# LETTERS

## UMASS Student Questions WPI Policy

Dear Editor:

As a student of the University of Massachusetts, I read, with much amusement, last week's [Oct. 15] Police Log. The Worcester Police Department really has it tough. The most dangerous assignment seems to be "the investigation of loud music" and "advising the offenders to turn it down."

On Wednesday, October 1st, Police reports indicate that at 11:05 a RA called in to "report that there was a man dressed in a woman's bathing suit in the residence hall." Is this against University policy? Does it violate any state by-laws?

At my college I see several men wearing women's earrings, but yet I do not call the police on them. I personally choose not to wear women's bathing suits as a general rule, but if there is someone that does, do we have to notify the law enforcement officials? What is going on here? What is happening to our society?

With the utmost concern,  
Darren M. Garnick  
Amherst (UMass class of '90)

# COMMENTARY

## My view from the Fourth Estate

by Joshua Smith

So how was your break? I stayed in Worcester, so for me it didn't seem like much of a term break — more like a long weekend. But now the first break is behind us and "it's all down hill from here." I'm hoping that my B-term will be a little less hectic than A-term, but I doubt that it will be much different. I have yet to buy my text books: buying books is an emotional experience for which I am not sure I am ready. Last term I paid \$40 for a book I never opened (no kidding). This term I'm not going to buy any books until I need them (by the which time the book store probably will have sent them back to the publisher; but that's alright, because they have a lot of the same books at Ben Franklin and they cost less there). For now I'm just listening to lectures.

The first day of classes is always an enlightening experience. Check out this theory: Teachers who's native language is not english invariably use overhead projectors. In fact, I think the inverse may be true as well, and hence, the converse. Scientist's usually call theories like that "universal laws."

Last term I took physics 1110 (I'm a C.S. major, so I put off physics until my sophomore year). I'm sorry to say that found it a bit less than interesting. So this term, instead of 1120, I chose to take 1121. In case you're not up on the difference, 1121 is supposed to teach principles (I wonder what 1120 is supposed to teach if not principles). I was curious what kind of people take the more difficult course. My suspicions were confirmed in my first conference section — there were about twenty people in the room, and about forty chairs, yet the first two rows were completely filled. Now I have nothing

against front-row people, I was one back in high school, but I have never seen so many in one class.

The first lecture was just as I expected — lots of demonstrations. Physics professors feel that on the first day it is their responsibility to demonstrate all of the phenomena that will be discussed throughout the term, even though they tell us that we are simply investigating natural phenomena that we see in our everyday existence. If we see this stuff every day, why does the class go "ooh" and "aah"? Students like demonstrations — they don't have to take notes.

My other subjects don't lend themselves to as much observation. I have one class that's being taught by an old pro. You know the type, they've been teaching for so long that they have actually learned to give interesting lectures. They overflow with self-confidence, so much so that you start to believe everything they say (maybe I'm unusual in this respect, but I have learned to listen to what a professor has to say, and decide the validity of the arguments later). This course is one of those second-in-a-series-of-two courses, but the first course was taught by a different instructor. It's fun because professors usually allot two or three days to teach you everything they think you should have learned during the first seven weeks, and everything is brand new. The professor eventually gets that "What the hell did that moron teach these kids, anyway?" look on his face.

This term looks like one of those in which the work increases exponentially with time. Last term I had one class like that, so it wasn't that bad; but this term I have two. Don't be too surprised if my columns get shorter as the term wears on.

## The Body Politic The Power of Religious Politics

by Steven J. Landry

This is the year of the religious politician. Candidates across the country are having their religious beliefs scrutinized by their opponents, a tactic which should scare many of those who believe in the Constitution. Tragically, the tactic, when limited to low-key attacks, seems to be working. Religion is laying its mark on politics.

The minimal outrage that has been expressed over the tactics of the religious-right candidates, has been countered with, "Christians are just exercising their right to vote," and, to some extent, this is true. Yet the public should be worried.

The religious beliefs of a candidate should not be the basis for anyone's vote, for it should not affect the manner in which a representative of the people makes her/his decisions. If religion doesn't enter the decision-making process, it would not affect the voting process, and hence should not be a topic of political debate.

Yet questions of religion are being raised, and since a candidate's popularity is dependent on public response, the constituents share the blame for this situation. It has become clear that there has been a drift toward moral legislature. Lawmakers who make decisions based on religious belief are receiving support. There are too many people who want to censor anything their religious belief deems immoral, and ban any activities forbidden by their beliefs. This trend is entirely contrary to the commitment

to freedom embodied in the Constitution.

With ever-vigil, trend-seeking eyes, candidates are trying to cash in on this religious intolerance. It has come to this: the people now have to decide between rigid moralism or freedom.

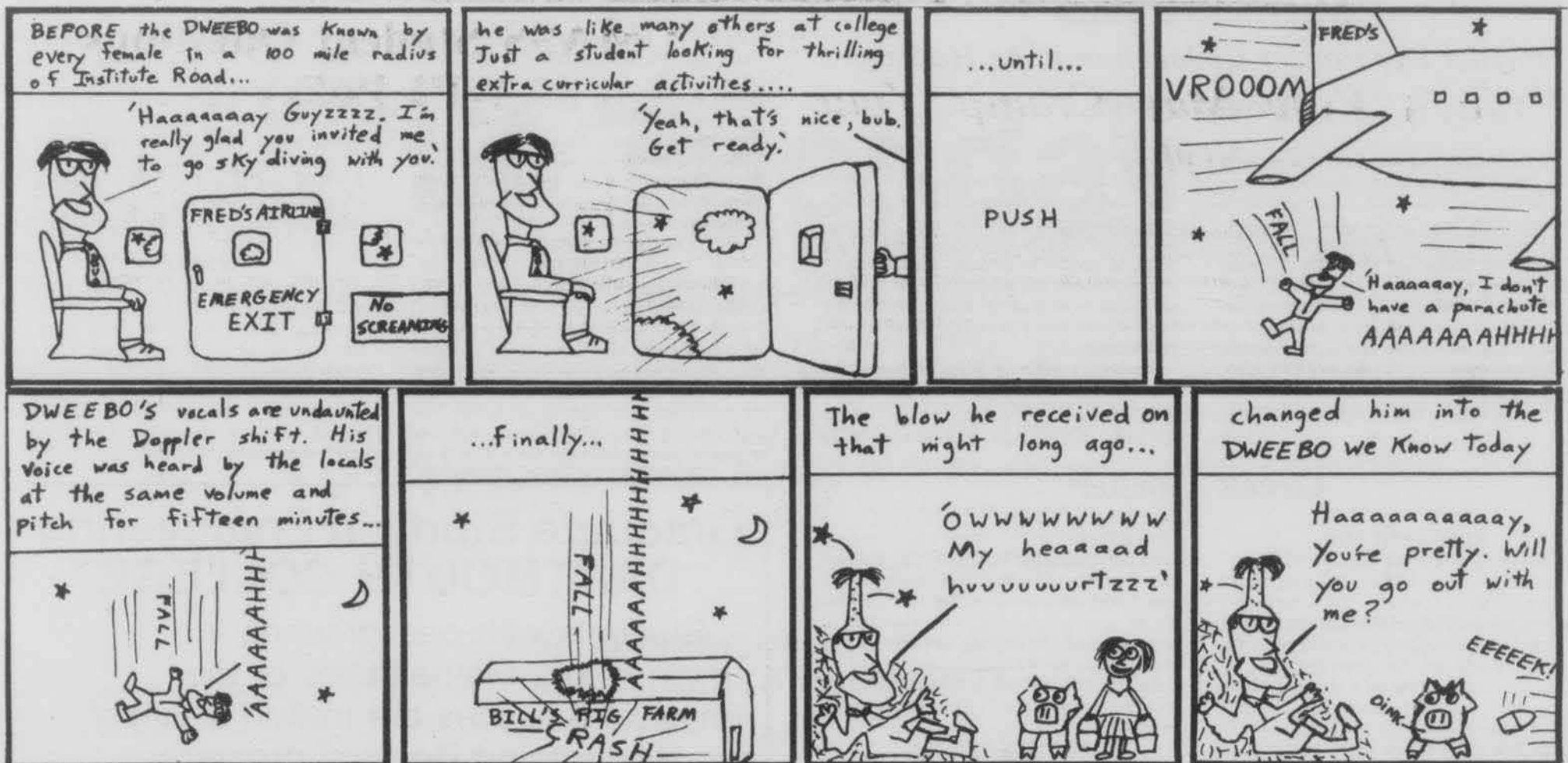
Yet there is another aspect of the problem, one which would surface only upon election. Being elected on a religious stance doesn't necessarily mean the candidate will fuse religion and government. Just how much will religion affect governmental decisions should these people gain office?

Today I happened to catch an interview on one of those bible thumping television programs which seemed to answer this question. The host was interviewing Walter Martin, the author of the book, *The Kingdom of the Cults*. Martin and his host discussed the very timely topic of witchcraft societies, and their attempt to gain recognition as a religion, with protection under the law. Martin stated that witches could not be granted this status, since the Constitution stated that "we are endowed by our Creator with certain inalienable rights," and that the witches worshipped an angel, not a creator. Disregarding the obvious impropriety of the presence of this statement in the Constitution, Martin's distortion of this statement, which has nothing whatsoever to do with the Bill of Rights, is obvious. It is this type of thought process which would frighten the public.

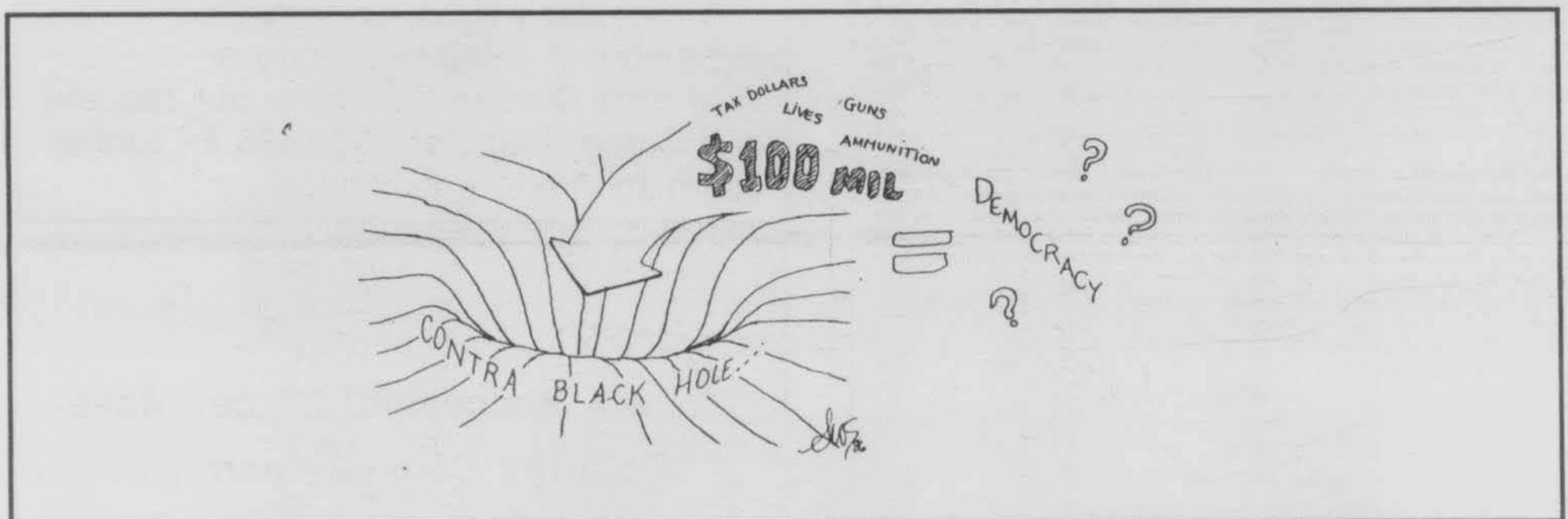
(continued on page 12)



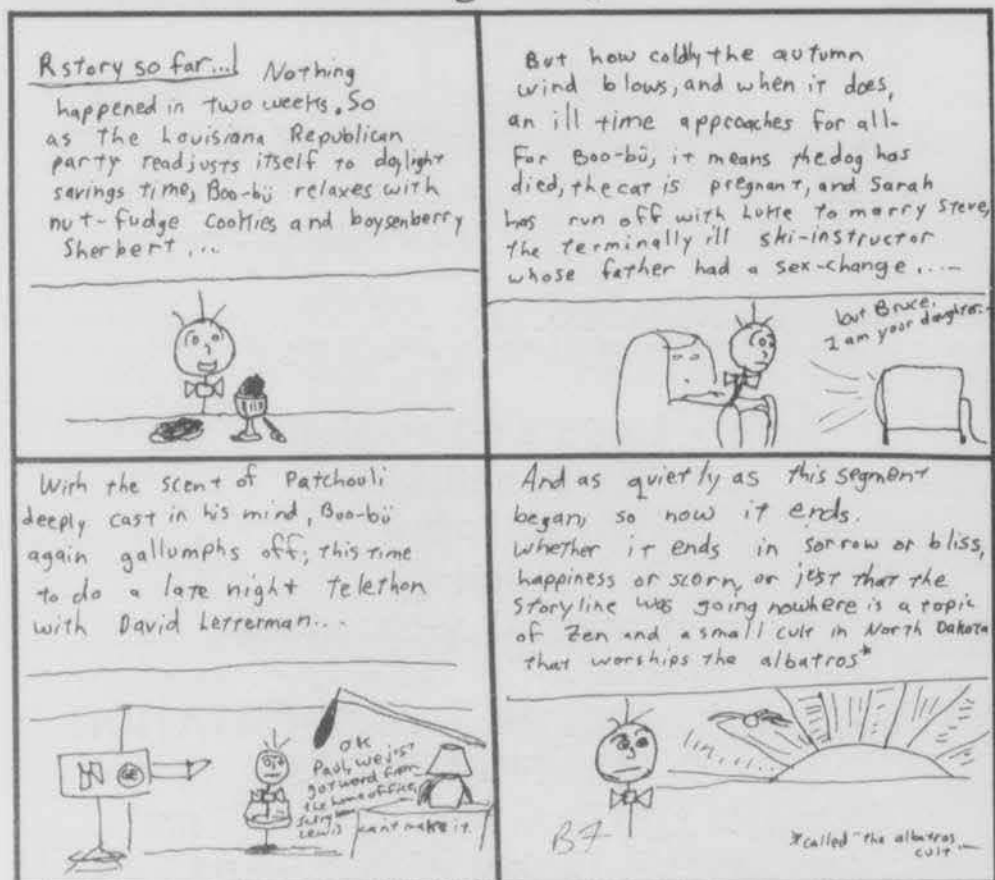
### Institute Road by Sean Luck and Dave Derion



### "The Black Hole" by Alan Spidle



### Boo-Bü The Stick Figure by Brian Freeman



**Talk With The Best Information Systems People In The Business...**

**...MEET AN AMS REPRESENTATIVE ON CAMPUS NOVEMBER 10.**

We cordially invite all Computer Science majors to attend a presentation on opportunities at AMS being held at: Higgins Lab, Room 109, November 10th at 7:00 pm.

American Management Systems, Inc. is looking for innovative people interested in designing, developing and implementing information systems. You will have a variety of challenging assignments analyzing and solving our clients' management information problems.

AMS is one of the nation's leading firms in applying computer and systems engineering technology to solve the complex management problems of large organizations. Founded in 1970, AMS has grown to over 1600 employees nationwide.

If you are interested in hearing more about our Programmer Analysts and Systems Analysts opportunities, please contact the placement office or forward your resume to: Patsy A. Chimini, Manager of College Relations, American Management Systems, Inc., 1777 North Kent Street, Arlington, VA 22209.

**AMS**

AMERICAN MANAGEMENT SYSTEMS, INC.  
Washington, D.C. - New York - Chicago - Houston - Denver - San Francisco  
Equal Opportunity Employer

### NEWSPEAK Writer Positions Open

Newspeak has two or three writing positions available for qualified applicants. Required are: Good writing skills; the ability to manage time properly; as well as a desire to be as thorough as possible in the items covered.

Persons interested should contact Mark Osborne, WPI Newspeak Box 2700, or come to a weekly writers meeting, held Fridays at 11:30 a.m. in Riley 01 (next to the pub).

## The Future of Computer Microelectronics

*Physics Department Colloquium to be Held on  
November 10*

At the **Physics Department Colloquium** on Monday, November 10, we shall have a rare opportunity to learn about the role of science in some of the most recent advances in high-tech industry, with a presentation by Dr. Stoyan M. Zalar of the IBM General Technology Division at East Fishkill, New York. This center of computer development and manufacture is the largest facility of its kind in the world. Dr. Zalar is uniquely qualified to present "**Physics and Physicists for Microelectronics**". After graduate studies at New York University in solid-state physics

he has had a long and productive career in industrial centers of technological development including those of Raytheon, Westinghouse, and IBM. His colloquium talk is sure to be of interest to students at all levels of engineering and science, especially those who may have career interests which touch on the latest microelectronics and computer-related technology.

The lecture will be on Monday, November 10, at 4:15 p.m. in the Physics Department lecture hall, OH 107.

## Greek Corner

### ALPHA CHI RHO

The Crows would like to welcome everyone back. Hope you all had a relaxing break and a good term. We have a few congratulations to give out; Laurel Bond, Kathy Hepp, Wendy Lyon, and Cheryl Melendy were all made "Friends of the Fraternity" in a ceremony conducted last term. Brother Andy Segal (self reported stud) was named midshipman-o-the-month recently, and Dave Smith flew his first solo flight over break. Lastly, we would like to congratulate graduate Mark Stanley on his appointment to the Board of Directors.

In other events, the annual Halloween Bash was again a success. Most of the credit goes to the social committee for their hard work. Our pledges continue to be an annoyance, lacking the ability to present any challenge to the brothers. Good luck (hopelessly) looking for the plaque guys! As a final note, we must acknowledge the Activities Committee for providing the means for our favorite activity.

### ALPHA GAMMA DELTA

Welcome back Alpha Gams! I hope you all had an enjoyable and relaxing break. B

term promises to be a busy one...orange soda party or something? Are you pledges finishing your Gig books? Time is getting short! Welcome back from San Fran., Lynn. We all really missed you!! Hey Kim, how is your egg shampoo holding up? Congrats to you pledges for once again succeeding to paint the rock **without** getting caught. This must be a new record!! Keep up the good psyche!!!!

### PHI SIGMA SIGMA

Welcome back, girls. I hope everyone got B term off to a great start with the Halloween festivities this weekend. A standing 'O' to the pledges for that fantastic raid. Great Job!! Now, after we rocked the intramural world of volleyball A term, it's time to dominate the basketball courts B term. Get psyched to play! Danielle and Minette, there will be NO intramural surfing team this year. Sorry. Congratulations to Leslie on her candle passing. Nice going! Reminders: November 10th, composite pictures are being taken at the house. Get your sponsors for the Bowlathon. December 5th is approaching. Christmas Party Date rushing has officially begun.

## Club Corner

### AIR FORCE ROTC

AFROTC would like to congratulate Cadet Joe Mitchell, a senior at WPI, for being awarded Group Commander this semester (terms A&B). During his summer field training program he was awarded a Vice-Commandant's Award. This is only awarded to one person in each flight (out of 20-30 people). Air Force ROTC wishes Joe the best, and looks forward to his sound leadership this semester.

### COLLEGIATE PISTOL TEAM TRYOUTS

There will be an open tryout held for the Collegiate Pistol Team on November 18, 19, and 20. These tryouts are open to anyone, experienced and non-experienced shooters alike. There will be a sign-up sheet located in the Pistol Range on which everyone wanting to try out must sign up on before Friday, November 14th. The Pistol Team shoots several matches during the year. This is an

excellent opportunity to meet new and exciting people. The season ends with the Northeast Regional Championships, where, if a shooter can qualify, he is invited to shoot at the National Competition held at the United States Olympic Training Center in Colorado Springs, Colorado. PE credit is available for B and C terms. There is a minimal fee to cover ammo and targets, but everything else is provided, so sign up for tryouts now!

### WIRELESS

The wireless club starts its B-term activities with a meeting Wednesday at 4:30 place to be announced. The new 40 meter beam is here and will be on the roof soon. There is much planing to be done for November Sweepstakes. Contact Joe on this. The brute is back and is loud as ever!!! As always anyone with an interest in ham radio should feel free to contact the club.

## Graduate Study in Engineering DARTMOUTH COLLEGE

Students with backgrounds in Engineering, Mathematics or the Physical Sciences are invited to apply for Masters and Doctoral programs. Fellowships covering full tuition and monthly stipend are available.

A recruiter will be on campus November 7, 1986 beginning at 9:00 a.m. Contact the Office of Graduate and Career Plans at 436-4436 for further information and appointment.

## PARENT'S DAY Saturday, Nov. 8

The WPI Men's Glee Club will be giving a concert at 4:00 P.M. Admission is free; all are welcome. Tickets will be distributed Fri., Nov. 7 from 11 A.M. to 1 P.M. and on Sat. 11 A.M. - 3:30 P.M. at the ticket booth in Daniels Hall. We hope to see you there, and thank you for your support.

## Make A Successful Career Move Join the Service Team At United Parcel Service

Start now as a part time Package handler and within months you could be part of the management team at U.P.S. Part Supervisors earn between 10,000 and 17,000 yearly.

As a part time package handler you

- Earn • \$8.00/9.00 an Hour
- Full Benefits
- Paid Holidays
- Promotions,  
Career Opportunities

**PLUS, U.P.S. OFFERS TRANSPORTATION  
TO AND FROM WORK**

Apply Mon. Tues. Wed. 1 pm - 7 pm  
U.P.S. Corner of Rt. 20 and  
Rt. 140, Shrewsbury, MA.

Or On Campus



**WPI SOCCOM PRESENTS**

# 'til Tuesday

**Friday, November 14th**

**Doors Open 8:00 pm**

**Harrington Auditorium**

Tickets go on sale Tuesday, November 4th at 10:00 am

Advanced Tickets: \$ 7.00 WPI Students

\$ 9.00 other students

\$11.00 general public

**Day of Show Tickets \$11.00 All**

**ALL SEATS RESERVED**

**DANIELS HALL BOX OFFICE**



# SPORTS

## WPI VOLLEYBALL ENDS WITH A BANG

by Peter Yap  
Sports Editor

WPI Women's Volleyball team finished the 1986 season with a 15-16 record. WPI, with only two returnees from last season, consists of a team with four freshmen. Although WPI struggled early in the season, they have been fighting to finish the 1986 season with a winning record.

WPI entered the Mass. State Finals seeded second behind Brandeis and a 13-15 record. WPI's first challenge came from Babson. Neither team had success at the net early in the game as they played to a 4-4 tie. WPI played cat-and-mouse with Babson. As Babson streaked to a three point lead on their serves; WPI countered with three strong serves to tie up the game. The net play of Stacey Cotton sparked to team to a 15-11 win.

WPI jumped to an early 4-0 lead in their second game with Babson on the serving of Maria Carvajal (known as "Spike"). But they could only muster one point on their next serve rotation and lost 15-8. The final game started with the sinking serves of Tiffany Kennedy and a WPI 6-3 advantage. WPI added the score as their shots fell near the Babson baseline and sealed a 15-8 victory.

WPI's next opponent was Simmons, who had just lost to Brandeis. The first game of the match was one of streaks. Simmons had point streaks of five and six points, while WPI had a 12 point streak. With the score

12-11, both teams fought hard for its point as WPI came up with an exciting 15-13 win. An early Simmons lead was quickly overcome as the WPI team came together as a unit and staked themselves to a 13-7 advantage. Simmons did not go down easy though, as their net defense dominated. But Ellen Sloan's spike and serve on successive plays put Simmons away for the 15-9 WPI victory. Leading to the showdown between Brandeis (15-10) and WPI (15-15).

All that was blocking WPI from a winning season and the tournament championship was Brandeis. The first game was a slamfest that you'd expect from the last match of the season. While WPI's Susan Mitchell was banging the ball at Brandeis defenders, Brandeis servers were handcuffing WPI defenders. The WPI serves abandoned them (five serving miscues) leaving them in a 10-5 hole. Brandeis slammed its way to a 15-7 win. Brandeis slams kept WPI on the defensive much of the second game, as Brandeis ran away with a 15-6 win.

WPI was not about to leave the 1986 season in a whimper. An inspired WPI team and crowd cheered them to a 7-9 deficit. The stronger Brandeis team found that WPI was not about to lie down for them and fought for a 15-9 victory over the Engineers.

This team played well and shows much potential for the next season. This squad will be back in the same form next year, but with more experience.

### WPI VOLLEYBALL BOXSCORES

TEAM	1	2	3
Babson	11	15	8
WPI	15	8	15
Simmons	13	9	x
WPI	15	15	x
Brandeis	15	15	15
WPI	7	6	9

## Women's Cross-Country Completes First Winning Season

by Brian Savilonis

The women's cross-country team enjoyed the high point in its three year history with a surprising second place finish at the Tri-State Championships held at Rodger Williams Park, Providence, R.I. WPI finished behind Wheaton but ahead of complete teams from Coast Guard, RIC, and Clark and incomplete teams from ECSU, Suffolk, Mass Maritime, and Albertus Magnus. Last year the Engineers finished seventh in the meet.

Individual medal winners for WPI were: Lori DeBlois for 6th place, Denise Crookes for 7th place, and Robin Fontaine for 14th place. Also running well were Rachel Salus, Lisa Partridge, and Laura Maclean.

Unfortunately, the Lady Engineers fell to a low point during the term break, as they could muster only four competitors for a meet at Regis College. The other schools also had a problem coming up with full teams of five, resulting in a meet scored with only four runners per team.

The final score for the meet was Regis 23, WPI 27, Pine Manor 30. Finishing for WPI were: DeBlois (who unofficially broke the 2.7 mile course record with a time of 16:18), Fontaine, Salus, and Maclean.

The team finished the regular season with a winning record of 9-7.

Several members of the team will run at the NCAA III Regionals at SMU on November 15.

## Field Hockey Ices Framingham State, Ends Season at 16-2

by Jim Goodell  
editor-in-chief

In their final game of the season, the WPI women's field hockey team shut-out Framingham State with a 6-0 win at home.

The game was held last Thursday night on Alumni Field. Despite the almost unbearable cold amplified by a biting wind, the WPI

team played up to the standards they have set, scoring two goals in the first half and four in the second.

WPI's total domination was obvious early in the game. During most of the game, goally Heidi Sellars stood alone while her team-mates, Carrie Nolet and Kathy Goggins kept firing the ball at the opponent's goal.

### 1986 FIELD HOCKEY STATISTICS

FINAL RECORD: 16-2

PLAYER	GOALS	ASSISTS	TOTAL POINTS
Carrie Nolet	19	7	26
Kim Cloutier	19	2	21
Kathy Goggins	13	7	20

PLAYER	SAVES
Heidi Sellars	64

\*total through 17 games of an 18 game season.

## RESIDENT ADVISORS 1987-1988

Applications available beginning November 11, 1986, at the Office of Residential Life for any students interested in becoming a member of the Resident Advisor Staff for the 1987-1988 academic year. All applicants must attend one of the following **Informational Meetings** on:

Tuesday, November 11  
4:45 pm - 5:15 pm  
Higgins Lab, 109

Wednesday, November 12  
12:00 pm - 12:30 pm  
Salisbury 105

**Application Deadline:**  
**November 21, 1986 at 12:30**

## OAC WPI Office of Academic Computing Newsletter

appearing in *Newspeak* V.14 N.23 November 4, 1986

### OAC MOVE

The Office of Academic Computing has moved to a new location. The entire Academic Computing facility is now located on the first floor of the Project Center. All business with OAC should be directed to the central office, rooms 102 - 104. Dean of Academic Computing Owen Kennedy, Administrative Secretary Arline Koontz, and Secretary Dorothy Miller are located in the central offices. OAC may be reached by phone at extension 5194.

The computer distribution center and repair shop remains located in room 101. The office of Dave Veinotte, Supervisor of Hardware Operations is also located in room 101. The computer shop may be reached by phone at extension 5015.

Donlad Farley, Supervisor of Software Operations (extension 5197), and Kieu Hua, Systems Software Supervisor (extension 5061) are now located in room 105.

OAC User Services can be found in room 107. Some of the services provided include software testing, distribution of public domain software, transferring of files from many of the campus miniframes to floppy disk, transferring of DECmate files to AT&T floppy disk text files, and more. User Services also provides access to a Hewlett Packard LaserJet printer at the cost of 10 cents per page. OAC Teaching Assistant offices are also located in room 107. TA's Reynold Dodson, Gu Gong, and Joe Sauer are available during OAC hours (Monday through Friday, 8:00 AM to 5:00 PM) to provide support of AT&T personal computers and associated software. TA's may be reached by phone at extension 5016.

### PC-WRITE 2.7

Over A-term break, OAC received the latest version of PC-Write, v. 2.7. The highlight of this new version is the inclusion of a spelling checker. The checker is accessed through the main menu in a similar manner to all other functions of

### PC-Write.

Many of the bugs found in version 2.6 such as problems encountered in the first lines of a reformatted paragraph have been repaired. Also, a new justification scheme is supported by version 2.7. If your printer can provide variable font justification (if the printer can allow less space for thin characters, such as i or l, and more space for wide characters, such as m and w), PC-Write will account for the printer justification when PC-write is in justification mode. When this function is implemented correctly, your text file will look ragged edged on the screen, because the screen provides equal spacing for all characters. When the file is printed, proper justification will result when the printer provides variable spacing according to the character being printed.

To get PC-Write version 2.7, bring two blank floppy disks to OAC User Services. The second disk is needed for the dictionaries used in the spelling checker and other utilities. For those who have purchased the PC-Write version 2.6 manuals, OAC also has free copies of an addendum upgrading the manuals to version 2.7.

### TUTORIAL SCHEDULE

OAC is repeating its series of weekly tutorials on AT&T PC's and associated software packages. Most of the topics will be repeated from A-term tutorials, although some will reflect newer versions of the software package covered. All tutorial sessions are held in Olin 205, from 4:00 to 5:00 PM EXCEPT Tuesday tutorials, held 4:30 to 5:30 PM (please note this change to the schedule handed out in October). Handouts are distributed at most tutorials. A brief outline of topics covered is available at OAC User Services. Everyone is welcome to attend!

### Upcoming Topics:

Tues. Nov. 4 MS-DOS Intro.  
Wed. Nov. 5 MS-DOS Inter.  
Thurs. Nov. 6 MS-DOS Adv.  
Mon. Nov. 10 PC-Write I, v. 2.7  
Tues. Nov. 11 PC-Write II, v. 2.7  
Wed. Nov. 12 PC-Write, MailMerge



# SPORTS

## 1986 W.P.I. SOCCER LEADING SCORERS

FINAL RECORD: 7-8

PLAYER	GOALS	ASSISTS	TOTAL POINTS	GAMES PLAYED
Amilcar Carneiro	6	3	15	14
Dave King	5	1	11	11
Gus Espinoza	4	2	10	14

PLAYER	SAVES
Roland Butzke	65
Mike Rotelli	10

## Men's Cross-Country Ends Successful Season

by Peter Yap  
Sports Editor

The Men's Cross-Country team finished with a winning season. The team completed the 1986 season with a commanding 10-2 record.

"I don't know why but I had a bad feeling all week," said Coach Merl Norcross as WPI was about to face Tufts in the Men's Track 1986 finale. The team suffered a 35-22 loss

as their record fell to 10-2. The best finishes for WPI were by Art Resca (third place in 30:27), Chris Labarre (sixth place in 30:54) and Brian Laprise (seventh in 30:55), who was running with an intestinal virus. "Their runners turned better times than we have all year so the loss wasn't a fluke", said Norcross.

## Student Pugwash Announces Risk Assessment Conference

by Kieran Suckling

As part of its continuing project to address the social implications of science and technology, WPI Student Pugwash will host a conference for graduate and undergraduate students on November 14 and 15, focussing on technological risk assessment. The two day conference will consist of symposiums on general problems in assessing risk and workshops focussing on specific technological problems.

Risk assessment is the methodology used by corporations and the government to determine the potential hazards of a technology (eg. Seabrook Nuclear Power Plant or automobile safety). The question of how risk should be analyzed, however, is very controversial. Many thinkers support a cost-benefit analysis which is highly rigorous and quantitative, placing relative numerical values on such things as health and the enjoyment of nature. Others such as Langdon Winner (RPI), the keynote speaker for the conference, worry that risk assessors, by their over emphasis of the quantifiable, simply retain the status-quo established by government and corporate influence. Chris Honemster (Clark) will present a third perspective on Saturday, November 15: the technological risk assessment model developed by the Clark University Hazards Group.

Also speaking at the conference will be Ortwin Renn (Clark) discussing the different ways experts and the public perceive technological risks; David Cheney (Congressional Research Services) explaining how Congress approaches the issue of risk in their deliberations; and Chuck Caldar (MIT, MASSPIRG) will discuss how many corporations in Massachusetts currently evaluate health hazards.

Students attending the free conference will join one of five working groups focussing on the risks involved in Third World development, human space flight, offshore oil drilling, Nuclear Power after Chernobyl, or corporate risk assessment. Meeting three times during the conference, the working groups will attempt to come to a better understanding of the issues in the area on which they focus, as well as trying to apply the theoretical positions of the symposium speakers.

WPI Pugwash is expecting about fifty students from New England to attend the conference located in Salisbury Hall. Any WPI student interested is urged to register with Gus Glaser (793-5564, 793-5008) or Jim Bennett (756-1398) as soon as possible - the working groups are limited. Students looking for IQP ideas may be especially interested. All symposium events are free and open to the public.

## President's IQP Awards Contest

Application forms are now available at the DIA, Project Center, Room 216.

**DEADLINE** for submission:  
5 January 1987

# risk assessment

STUDENT CONFERENCE

November 14 - 15, 1986 Worcester Polytechnic Institute

### PLENARY SESSIONS

#### "Risk: Another Name for Danger"

Langdon Winner

Associate Professor of Political Science (RPI)  
Author of *Autonomous Technology* and  
*The Whale and the Reactor*

#### "The Dichotomy of Public and Expert Perception of Risk"

Ortwin Renn

Associate Professor of Environment Technology and Society (Clark)

#### "The Clark University Hazards Group Taxonomy of Technological Risks"

Christopher Hohenemser

Chairman of Environment Technology and Society (Clark) Author of *Risk in the Technological Society* and *Perilous Progress: Managing the Hazards of Technology*

#### "Risk Assessment: A Congressional Perspective"

David Chaney

Congressional Research Service (Library of Congress)

Charlie Coldart

MASSPIRG - Director of Public Interest Litigation Project  
Faculty Member (MIT)

### WORKING GROUPS

#### Corporate Risk Assessment

#### The Challenger and the Future of Human Spaceflight

#### Water Resource Planning - Use of the Sea

#### Risk Assessment in Third World Development

#### Chernobyl: Reflections for Nuclear Industries

Sponsored by:

WPI Student Pugwash and WPI Division of Interdisciplinary Affairs.

To register contact:

Gus Glaser

Tel. day 617-793-5008 or 5564  
evening 617- 753-2331 (home)  
messages: 793-5071

Jim Bennett

15 Florence Street, Worcester, MA 01603  
Tel. 756-1398  
Box 1081

## "Light Bulb Savers" Can Waste Energy and Cause Problems for Consumers and Utilities

(WPI News Service)— What's round, attaches to the bottom of an average light bulb and causes headaches for electric consumers and utilities alike?

The answer is the light-bulb saver, that button-like device often sold on late-night television. Inside the disk is a silicon diode that is supposed to cut the energy use and extend the life of electric lamps.

According to Alexander E. Emanuel, professor of electrical engineering at WPI, these devices, while they may significantly increase the lifespan of light bulbs, actually cause consumers to use more, not less, electricity; may corrode electrical equipment; can accelerate the wear on power company transformers; and create system harmonics which can damage electric generators, motors and power distribution equipment.

Emanuel, well-known for his pioneering work on electric power system harmonics, performed mathematical and economic analyses of the bulb savers and published his results this summer in the *Institute of Electrical and Electronics Engineers (IEEE) Transactions on Industry Applications*. His paper recently won first place in the IEEE

Industry Applications Society's paper award competition.

Light bulb savers extend the life of bulbs by cutting the voltage applied across the bulb's filament and, therefore, reducing the rate at which the filament is used up, Emanuel said.

In theory, this should increase a bulb's lifespan about 90 times. By operating at a lower voltage, the bulb also consumes about 40 percent less energy.

However, bulb savers reduce the light output of a bulb by as much as 70 percent and give the resulting light a reddish cast. It is reasonable to expect, Emanuel said, that to compensate for the lower light output consumers will use larger bulbs or employ more lamps per room. If they do so, Emanuel's calculations show, they will actually use as much as 30 percent more energy than if they had foregone the use of the bulb savers.

Perhaps a more serious problem is the tendency of silicon diodes to inject direct current (dc) electricity into the alternating current (ac) electric power system. This direct current, under certain circumstances, may cause the corrosion of grounding wires and

electrodes. If the bulb saver is not screwed in tightly, it can also create a shock hazard and generate heat that can destroy a lamp's electrical insulation.

What happens within a home where bulb savers are employed could occur on a much larger scale if these devices become commonplace, Emanuel said. The dc current injected into electric power systems can cause electric transformers to wear out faster and create dangerous harmonics that can damage motors, generators, transmission wires and other large electrical equipment.

"If you weigh the theoretical advantages of these devices against the drawbacks, it becomes clear that light bulb savers are detrimental to both the users and producers of electricity," Emmanuel said.

Emanuel, who has been a member of the WPI faculty since 1974, was one of the first researchers to alert the electric industry to the potential problems of system harmonics. He coordinated the first International Conference on Harmonics in Power Systems, which was held at WPI in 1984.

## Crisis Center Offers Training

The crisis center, Worcester's 24-hour crisis intervention and suicide prevention hotline, will begin a training workshop on Saturday, November 15, for persons interested in becoming volunteer counselors.

The center relies on dedicated volunteers providing immediate help and support to thousands of callers experiencing emotional distress. Given the tremendous pressures and stress in society today felt by young and old alike, a service such as this is invaluable to the community.

The intensive training program is open to anyone 18 or older who has the desire to help, the ability to learn and the willingness to make a six-month commitment. Volunteering at the crisis center is an excellent opportunity to learn crisis intervention counseling, enhance communication skills and get practical experience in the human service field.

Any individual interested in the upcoming training or in obtaining more information about the crisis center, please contact Barbara Fouracre at 791-7205.

# If This Is Your Second

$$E(XY) = (0)(-1)(0.4) + (0)(0)(0.4) + (1)(-1)(0.01) + (1)(0)(0.58) = 0.064$$

$$\sigma_{XY} = E(XY) - \mu_X \mu_Y = 0.064 - (0.4)(0.828) = -0.2712$$

$$\rho_{XY} = \frac{\sigma_{XY}}{\sigma_X \sigma_Y} = \frac{0.064}{(0.4)(0.828)} = 0.194$$

What do you do with your math skills?

Why not predict the future. Keep an eye on \$100 billion in assets. Create, control, dissolve multi-million dollar financial instruments. Price corporate acquisitions.

Earn like an MBA. Learn like a Ph.D. Have more fun than bankers and more security than security brokers.

Be an executive, financier, sociologist, economist, legislative expert, master communicator and mathematician. All in the same day.

And do it all with the Best in the Business. Become an Aetna actuary and get ready for a clear shot at the top.



## Survey Reveals Student Attitudes and Buying Habits

OBERLIN, OH—The nation's college students are more conservative in their attitudes about a wide range of subjects than the generation which preceded them, according to the most penetrating survey of college student attitudes ever undertaken.

Student Watch '86, conducted by Simmons Market Research Bureau for the College Stores Research & Educational Foundation, provided for the first time an in-depth look at a separate and important force in America's social/political/economic picture — 12.5 million students with over \$20 billion in discretionary annual spending.

The Foundation that funded the \$250,000 survey is the research arm of the National Association of College Stores, a trade association with more than 2,700 college store members and 1,000 associate members across the U.S., Canada, and other countries.

Based on responses from 4,349 randomly selected students who answered a 29-page questionnaire, this picture of general attitudes emerged from America's college and university campuses:

Fifty six percent think sex before marriage is always or sometimes wrong, while 95% percent that sex outside marriage is always or sometimes wrong, and 69% prefer post-

poning marriage until they have achieved other goals.

Seventy percent believe that cigarets are harmful and 48% indicated they would not even date someone who smokes.

Eighty-four percent think cocaine is harmful and 62% believe marijuana use is also unwise, but only 10% feel that way about alcohol.

Seventy-three percent favor the death penalty, and 69.9% think abortion should be legal.

Respondants expressed their political views and alignment; 37% considered themselves Republicans, 31% independents, and only 28% listed themselves as Democrats.

Doctors, scientists, and professors are highly respected by students. But reporters, government workers, and politicians had better mind their "public image," because 60%, 47% and 70%, respectively, of students had little or no trust in these professions.

Sixty-nine percent of the students said religion was important to varying degrees in their lives, and 26% said they attended religious services at least once a week; 51% attended at least once a month.

The survey also provided an insight into financial habits of students, including the fact that 48% live off campus, and in effect

run households.

Fifty percent of the respondents get more than half of their discretionary income from their own earnings and 58% of those said they earned over \$2,000 last year, while 25% earned over \$5,000.

When it comes to discretionary spending, 61% said they had \$100 per month or more to spend. Nineteen percent in that group has between \$150-249 and another 19% spend \$250 or more. Largest dollar expenditures by students during the school year were at the college store, with a median of \$248.61.

Ninety-six percent said they spent more money on clothing during the past school year than on any other category — with a median expenditure of \$187.40. Four percent of all discretionary income was spent on health and beauty aids.

In other survey highlights, 56% have and use bank credit cards, 41% have borrowed money to attend college, and 86% have savings accounts. College students are owners of high-priced items as well: Sixteen percent have a new car, 39% purchased a used car; 78% own a television set, 66% a stereo system; 36% a 35mm camera and 17% a computer.

## The Club Begins Shuttle Service

The Club, a local bar which sponsors weekly "college nights," has established a free shuttle bus service in conjunction with the Worcester Area Transportation Company (WRTA). This service, starting Wednesday, November 5th, will provide transportation to and from The Club for students of WPI as well as from Clark University and Worcester State College.

The shuttle service, called the RTA/Club Express, will pick up WPI students in front of Founders Hall, on Boynton street. The vehicle used will be a GMC white van (capacity 55 persons) with a blue reflective banner on its side.

The trip will take approximately 25 minutes, with WPI students being picked up first. Runs will originate at 9, 9:35, 10:10, and 10:45 pm. Return trips leave The Club at 11:30 pm, midnight, 12:40, and 1:15 am. Security will be provided to passengers by Club employees.

The main reason behind the program is to combat drunk driving. The Club Express will now allow patrons to attend the Club without the worry of having to drive home.

The Club is located at 90 Commercial St. in Worcester.

# Language, Let's Talk.

$$.16) + (0)(1)(0.24)$$

$$)(0.14) + (1)(1)(0.05) = 0.04$$

$$4) - (0.2)(-0.12) = 0.04 + 0.02$$

$$0.19$$

Bring us your mathematical mind, a talent for communication and the desire to do something important. We'll give you the best actuarial and management training you can get.

Proof? Talk to us. It gets even better.

Time: November 12, 7:00 P.M., Place: Library Seminar Room

## Be The Brains Behind The Business.



# HALLOWEEN!



PHOTO BY MIKE WRUBLENSKI

*Valiant gorilla saves haunted house visitors from Jason.*



PHOTO BY LISA ALPERS, FEATURES EDITOR

*Viking threatens to behead guests.*



PHOTO BY LISA ALPERS, FEATURES EDITOR

*Little girl refuses to go to bed early.*



PHOTO BY MIKE WRUBLENSKI

*Haunted house volunteers proudly display their cadaver.*



## Computer Science & MIS Students

# SHARE THE INSPIRATION.

**T**he rush of adrenaline. The surge of excitement. The flash of inspiration. Familiar feelings to talented DP professionals at The Travelers. And to the promising graduates who'll join us this year.

You've discovered these feelings in your academic work. Recognized them in the elegance of advanced technology. And now you can share in them at The Travelers, where the support is stronger, the environment more sophisticated and the applications more challenging.

As a distinguished Computer Science or MIS graduate, you now have a difficult decision to make about your future. That's why we created ACCENT. A fast-paced, competitive program. Offering technical and management training through a diverse range of assignments leading to key professional positions.

All in one of the most advanced DP environments in the financial services industry — including the largest IMS shop, 18 IBM mainframes and a 36,000 terminal SNA network.

But our commitment to staying on the cutting edge of DP technology doesn't stop there. We've recently installed 13,000 IBM PCs, integrated the latest 4th generation languages, and we're developing our future leaders with ACCENT.

If you have a degree in computer science, MIS or a related discipline, high academic achievement, exposure to hardware and software, and some programming experience,



you have the right credentials for ACCENT.

If you're a highly-motivated person, an independent worker, and an innovative thinker, you have the right chemistry for ACCENT.

Now make the right move. To The Travelers ACCENT program. Where you'll find varied and valuable learning experiences. A supportive human environment and a sophisticated technical one. And where you'll find plenty of opportunities to help move you ahead.

You'll also receive a competitive salary, complete benefits and even an IBM PC AT to take home with you. Plus generous relocation assistance to our Hartford, Connecticut home office.

So, if you're a bright and talented computer-oriented major, join The Travelers. Where the accent is on you and the inspiration is shared by all.

Find out more about signing up for The Travelers interview schedule. Recruiters will be on campus Monday, November 10. Or, send your resume to: Priscilla Pellett, 30-CR, The Travelers Companies, One Tower Square, Hartford, CT 06183-7060.

Data Processing  
for Dedicated People.

**TheTravelers** 

## Admissions Office Hosts Open House on Tuesday, Nov. 11

The Office of Admissions is sponsoring an Open House as part of a series of on-campus recruitment programs this fall which are designed to give prospective students and their parents the opportunity to tour our campus and facilities, and to meet the staff, faculty, and students who make WPI a special place.

The participants will begin the day with a welcome from President Jon C. Strauss, followed by a presentation of the WPI Plan by William Grogan, Dean of Undergraduate Studies, and Francis Lutz, Associate Dean of Undergraduate Studies. The day will also include presentations about the admissions process, student activities, cooperative education, career planning and placement, and the offerings within our major academic departments, as well as taking a comprehensive tour of the campus and facilities. Participants will also have a luncheon in Harrington Auditorium.

The Office of Admissions is expecting approximately 650 high school seniors and their parents, so don't be surprised when you see the many new faces of visitors walking around the campus on Tuesday, November 11th. If the previous programs they have sponsored this fall are any indication, this Open House should prove to be a tremendous success!

## . . . Politic

(continued from page 2)

Granted Walter Martin is not running for office, yet he holds the same convictions as some religious politicians. If there is the remotest chance of this type of thinking entering into the legislative process, there is a danger to the rights of all Americans.

Everyone must vote according to their beliefs, but no belief and no minority should be silenced. The infringement of rights is not one of the benefits of a majority.

## A private interview

Wednesday, November 5, 1986

Public Service of New Hampshire, the state's largest electric utility, is ready to meet with you. Personally.

As the company that supplies power to nearly three quarters of New Hampshire's population, we have made a commitment to provide safe, reliable electric service at the lowest cost to our clients.

PSNH is headquartered in Manchester, NH, where the cultural and educational resources of Boston are just an hour away. And New

Hampshire's many lakes and beaches, as well as the White Mountains, provide an ideal environment for a variety of recreational activities. All in a state that's sales and income tax free. Currently PSNH is offering excellent opportunities in the following areas:

**Electrical Engineering with Power Concentration**

**Mechanical Engineering**

**If you're ready for a private interview with one of New Hampshire's largest public utilities, sign up at your Placement Office today. A committed equal opportunity employer, M/F/H/V.**

**PSNH**

Public Service of New Hampshire

*with*  
**Public Service  
of New Hampshire**

# Support the 15th ANNUAL IFC/PANHELL AUCTION FOR THE UNITED WAY

— Wednesday Nov. 12th 7:30 PM Alumni Gym —

Come get great deals on all sorts of merchandise — clothes, jewelery, radios, dinner specials, food, and many, many more. 50¢ admission qualifies you for the major door prizes — escape weekends, a VCR, gift certificates, and more! And all for a Great Cause!



# JOB OPPORTUNITIES WITH ARTHUR ANDERSEN

Several representatives from Arthur Andersen and Company will be at the next Management Society meeting to discuss career opportunities in consulting and management information systems. All MGC, MG, and MGE students are welcome.

Date: Thursday, Nov. 6  
Time: 4:30 - 5:30  
Place: SL105

## PROCTOR & GAMBLE



### PRODUCT DEVELOPMENT OPPORTUNITIES FOR CHEMICAL ENGINEERS

**Seniors:** Interview with Frank Consoli  
on Tuesday, Nov. 11th.



**Juniors:** Interview for Summer Jobs in February

If you have any questions, call Frank at 513-530-3873  
or

Anne M. Jalbert (1985 Grad)	513-530-2219
Mike Norton (1986 Grad)	513-530-4039
John Pacheco (1986 Grad)	513-659-2633

Soccom needs

## USHERS

for 'Til Tuesday Concert  
Friday, November 14th

Sign up with Dixie Reynolds  
in the Dean of Students Office

\*No Clean up

\*Free Admission

## APARTMENT

Tenancy in common apartment-sharing  
arrangement available immediately.

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

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

**797-5878**

## POSITIONS AVAILABLE

### AREA REP MANAGER

Earn salary, commission and free travel. Position involves management of area campus reps for a national college travel and marketing firm. Approximately 20 hours per week, ideal for senior or graduate student.

### CAMPUS REP

Earn commission and free travel. Market ski and beach tours on your campus.

Call Michael DeBoer at 914-682-1795 or write to American Access Travel, 141 Central Park Avenue South, Hartsdale, NY 10530

**CALL TOLL FREE  
(800) 992-3773**

### Cashiers — Part Time

Day or evening hours available. Duties include light cleaning and cashiering, competitive wages paid

Apply in person.  
DREAM MACHINE,  
WORCESTER CENTER

### SECURITY GUARD

Dependable, conscientious individual to work weekends part time. 11 pm to 11 am shift. 12 hours, references required.

DAVID CLARK CO., INC.,  
360 Franklin St., Worcester EOE

At NSA,  
You Needn't  
Ponder  
Tomorrow's  
Technologies.  
You Work  
With Them.

**Electrical / Electronic / Computer Engineering,  
Computer Science and Mathematics Majors**

Simply put, no one is better equipped than NSA to give you a career on the frontier of communications. And there's good reason.

We're the National Security Agency and the work we do does a job for every American. We safeguard our nation's vital communications. We analyze foreign transmissions. We secure the government's massive computer systems. It takes twenty-first century technology to grapple with these tasks. It takes people like you to "mind" the technology.

**Electrical / Electronic / Computer Engineers** sometimes specialize, oftentimes opt to investigate a vast range of electronic information technology. You could engage in small to large system design and prototype development testing and evaluation, field installation, or operations support.

**Computer Scientists** exploit a huge computer facility in their work beyond the limits of finite state machine development and applications.

**Mathematicians** get a full measure of technological support as well, in developing vitally important practical applications for mathematical concepts in areas such as cryptology.

Here, your tools-of-the-trade will be the tools of tomorrow. With them comes a rare degree of flexibility—a near insistence on exploring new options along your career path. Rapid advancement, early responsibility, competitive salaries and enticing benefits—it all adds up to a career you can live with. And with our location between the vibrant urban centers of Baltimore, MD. and Washington, D.C., you'll be living well.

Bring yourself closer to tomorrow's technologies. Schedule an interview with your College Placement Office. Or write to the National Security Agency.

NSA will be on campus Nov. 24th  
interviewing graduating seniors.



**NATIONAL  
SECURITY  
AGENCY**

NATIONAL SECURITY AGENCY  
ATTN: M322 (AAN)  
Fort Meade, MD 20755-6000

U.S. citizenship required for applicant and immediate family members.  
An equal opportunity employer.



## Student Counseling Center Seminar Schedule B Term 1986

### 1. Career Decision Making

This seminar is for the student wanting to explore personal interests, values and attitudes in order to make choices regarding major, career goals, jobs or life plans. Format will consist of interest/attitude testing, values clarification activities and practical information giving.

Mondays: 11/10, 11/17 & 11/24, 4:30-6:00 PM (Attend all 3 sessions)

Student Counseling Center Seminar Room  
Leader: S. Carol Theisen

### 2. Journal Writing for Personal Growth

A workshop in which participants will learn

how keeping a journal can promote self-discovery. Several specific writing devices and techniques will be introduced. Participants will *not* be expected to share their writing.

Mondays, 11/10 & 11/17, 6:30-8:30 PM (Attend all 3 sessions)

Students Counseling Center Seminar Room  
Leader: Harry M. Merryman

### 3. Tech PLUS

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

### 4. Tips for Effective Studying

Designed to assist you in developing more effective study habits, reading skills, retention of information. Also, learn how to stop procrastinating 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, 11/11 & 11/18, 6:30-8:30 PM (Attend both sessions)

Goddard 311

Leader: James E. Groccia

### 5. Assert Yourself

Have you ever felt angry with yourself for not saying what you wanted to say? This workshop will explore how you can express honest feelings and direct and straightforward without denying the rights of others.

Through exercises and discussion you can learn about what is keeping you from being

assertive and develop skills to assert yourself with others.

Tuesdays, 11/18, 11/25 & 12/2, 6:30-8:00 PM (Attend all 3 sessions)

Student Counseling Center Seminar Room  
Leader: S. Carol Theisen

## CLASSIFIEDS

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

**ARE YOU LOOKING FOR A REWARDING IQP? Learn about the scouting for the handicapped IQP. Contact Dave Picard, Box 333.**

**Don't miss Tom Barter 12/9 at Gompei's!**

**\$\$\$ EARN MONEY!!! FLEXIBLE HOURS!!! CAMPUS-WIDE ASSET INVENTORY AND DATA INPUT. WORK STARTING IMMEDIATELY AND LASTING THROUGH B TERM ... SOME POSITIONS LONGER. CALL MARY SHAI, BUSINESS OFFICE, 793-5070 OR 793-5577.**

Get some great deals on all kinds of stuff and help a worthy cause - IFC, Panhell auction, Alumni Gym, Wednesday, November 12th.

**SCOUTING FOR THE HANDICAPPED** is a challenging IQP. If you are a responsible person interested in working with the handicapped, contact Dave Picard, Box 333.

**Don't forget to sponsor your favorite Phi Sigma Sigma for the bowlathon.**

**Publish the time and date of your off-campus party in the Newspeak Classifieds!!**

**Angela, where were you Friday night? Luv, B.**

**WIN ESCAPE WEEKENDS, A VCR, AND MUCH MORE AT THE IFC/PANHELL AUCTION FOR THE UNITED WAY WED, NOV. 12TH.**

**RETROACTIVE C.S. DEPARTMENT DISTRIBUTION REQUIREMENTS SUCK WET HAIRY GANGRENOUS PUSTULANT RANCID MOOSE PARTS.**

**Vanna - When are you going to introduce me to those cultureless boobs? - Queenie**

**FUN** is a word that describes **SCOUTING FOR THE HANDICAPPED**. No scouting experience is necessary. If you are interested, contact Dave Picard, Box 333.

**The Crucher agrees, you guys are all a bunch of mashed potatoes!**

**WHO IS GEORGIE? - 'Air' Mail**

**Help support the IFC/PANHELL AUCTION - Wed Nov. 12th - 7:30 - Alumni Gym.**

## ... West Street (continued from page 1)

Students should now keep in mind that West Street is a public way. The entire freshman class is unaccustomed to the presence of traffic at all on West Street. One of the worthy opposition's main points against closing might crumble in their own hands - the one about there not being one pedestrian accident on West Street in the over 100 year history of this school.

There certainly have been at least some close calls since that time. It seems that the closing of West Street would not only make the campus more aesthetically pleasing, but it would also make the campus safer. According to President Strauss, WPI may soon be able to accomplish this goal.



**If you just ask for a light,  
you never know what you'll get.**



**BUD  
LIGHT**  
BEER

Ask for Bud Light.  
**Everything else  
is just a light.™**

© Anheuser-Busch, Inc. St. Louis, Mo.

## Parent's Day Reception

4:00 - 5:30

Gompei's Place

sponsored by RHC

## What's Happening

### Tuesday, November 4, 1986 Election Day

7:30 p.m. - Cinematech Film Series, "Our Man in Havana," Alden Hall, free

### Wednesday, November 5

2:00 - 4:00 p.m. - WPI/MITRE Space Shuttle Program displays, Library Archives Room

4:00 p.m. - Department of Chemistry Colloquium presents Dr. Martin E. Kuehne of the University of Vermont, "Biomimetic Synthesis of Indole Alkaloids," GH 227

9:00 p.m. - The Reel Thing, "Sophie's Choice," Alden Hall, \$1.00

### Thursday, November 6

4:30 p.m. - "Special Project Opportunites" Seminar. Information on WPI's Project Centers and Special Programs will be available.

### Friday, November 7

8:30 p.m. - Dance Daze, Alumni Gym, \$2.50

### Saturday, November 8 Parents Day

### Sunday, November 9

6:30 and 9:30 p.m. - The Reel Thing, "To Live and Die in LA," Harrington Auditorium, \$1.00

### Monday, November 10

4:30 - 6:00 p.m. - Student Counseling Seminar, "Career Decision Making," Part I, Student Counseling Center Seminar Room, 157 West St., free

6:30 - 8:30 p.m. - Student Counseling Seminar, "Journal Writing for Personal Growth," Part I, Student Counseling Center Seminar Room, 157 West St., free

7:30 p.m. - Tech PLUS - Call Student Counseling Center, 793-5540, for information.

### Tuesday, November 11 Veterans Day

6:30 - 8:30 p.m. - Student Counseling Seminar, "Tips For Effective Studying," Part I, Goddard 311, free

8:00 p.m. - Coffeehouse, "Hot Acoustics," Gompei's Place, \$1.00

## Police Log

### Sunday October 19

12:00 PM - Student into station to report that his side vent window had been smashed the night before in the library parking lot.

10:13 PM - Student calls in reference to a complaint regarding a suspicious person, male, wearing a women's red bathing suit and white T-shirt in a residence hall. Unable to locate individual.

### Friday October 24

10:50 AM - Faculty member calls regarding possible larceny in academic building. Officer out to investigate.

### Wednesday October 29

9:20 PM - RA calls to report that several students had indicated to him that there were things taken from their rooms during term break. Officers out to speak with students.

### Thursday October 30

12:22 AM - RA calls to report that he had seen several students throw a table out a window in Morgan Hall. Officers out to investigate.

## ATTENTION FRESHMEN!!

## REMINDER!

## WIN A FREE TRIP TO LONDON!!

As part of the **INAUGURATION OF THE NEW WPI LONDON PROJECT CENTER** next April, a generous donor to WPI has provided funds to enable **TWO MEMBERS OF THE CLASS OF '90** to attend the Inauguration Banquet. This formal Banquet will take place the evening of Monday, April 13, 1987, at a Guildhall overlooking the Thames River. The Inauguration Address will be delivered by Baroness Platt, an engineer who is also a member of the House of Lords.

The anonymous donor of the travel funds stipulates the following selection procedure for selecting these two Representatives of the Class of '90 to participate:

1. **APPLICANTS** must write a 500 word essay on "The Role of International Study in the Education of Professionals." One copy of this essay must be submitted to Professor Schachterle in the Project Center by **4 PM, FRIDAY, NOVEMBER 7.**
2. Project Center staff will screen all written essays, and select ten **SEMI-FINALISTS** who will make brief oral presentations of their essays before Thanksgiving. From this pool five **FINALISTS** will be chosen.
3. The essays of the five finalists will be transmitted to the British Embassy in Washington for final selection of **TWO REPRESENTATIVES OF THE CLASS OF '90** who will present their class greetings at the formal banquet in London. They will also write a report of the Inauguration for publication in *Newspeak*.

The donor will cover travel and lodging costs, with an allowance for food, and sightseeing, for the two class representatives in London from Friday, April 10, to Wednesday, April 15.