

ARL utilizes the art of experimentation

by Rich Bibbins
Newspeak staff

The Alden Research Laboratory (ARL) in Holden is a self-supporting research department of WPI. It is also one of the oldest operating hydraulics laboratories in the United States. Founded in 1894 by George I. Alden, then the head of the WPI ME department, it contributed greatly in the areas of flow measurement, hydraulic machinery, and physical modeling of fluid phenomena.

Today, the laboratory still is one of the world leaders in such hydraulic studies. As ARL Director George Hecker pointed out, the concerns upon which the Alden research efforts must focus are vastly different than in the early 1900's. Currently, the research goals of learning the basics of hydraulics have been refined by modern technology. This is especially true in power production.

In both steam and hydroelectric pow-

er plants, things like quantifying the flow of water relative to the size of the installation, the density or viscosity of water, or the effect of discharge upon the environment, are major endeavors at Alden. Also, as in the past, smaller plants are becoming of far greater interest in hydroelectric projects. This minimizes environmental impact and makes use of a larger number of our water resources.

The specific tasks for investigation are many, and a lay person would have much trouble visualizing the need for the intricacies of study employed at ARL. For example, besides the "low head", smaller-size hydroelectric plants, the laboratory is undertaking much in the work with closed-conduit flow. This includes study about pressure-triggered valves, force relationships to equipment bodies, heat exchanger devices, and the performance of centrifugal pumps.

Since ARL research is supported by

private or government interests, most projects are aimed at specific applied science goals. Financiers of these projects include the National Science Foundation, Nuclear Regulatory Commission, Sandia National Laboratories, and a few power companies. Between these contractors, Alden manages to employ 50 people, including eleven professional engineers, and support graduate research from WPI.

"A major problem out here is fluctuating workload. Typical projects last four to six months . . . planning ahead, staffing, project needs, etc., are only projections based on the past," noted Professor Hecker. While government cuts will affect the research into basic science, most of their funding comes from the electric power industry.

Paul Bozoian, an engineer who has been at the Laboratory for about four years, gave a tour of several of the projects. In one of the "sheds" housing

the testing apparatus and models was a long, narrow channel. It was surrounded by empty tanks and valves. The purpose of this set-up was to investigate the possibilities for screening fish from the channel before they reached the power plant's pumps.

Another attempt to Save the Fish was underway in a similar structure located outdoors at the far end of the grounds, a prototype for a system to be used in Ontario. This project attempted to funnel the fish into louvres on the side of the channel. While his hopes on both efforts appeared high, Paul did point out that the variables were many.

For instance, while some mesh sizes kept out even small fish, larvae were seeping through. Soon they discovered that even the smallest screen had its drawbacks; although the tiniest larvae could survive in small chops of water, the next growth stage could not with-

(continued on page 2.)

WPI Newspeak

The student newspaper of Worcester Polytechnic Institute

Volume 9 Number 16

Tuesday, October 6, 1981

In the
groove
of the
TUBES

Kerwin speaks on man in space

by Tom Nicolosi
Features editor

Saturday, October 3, 1981, marked a new beginning for the Atwater Kent building. Somehow, the rededication ceremonies seemed to celebrate more than the recently completed renovations to the building which now houses the Electrical Engineering and Computer Science Departments at WPI. In among the brand new carpets, refurbished laboratories, and bright new lounge is hidden a ghost of the past, a ghost of trolley car motors and almost laughably crude devices for harnessing the energy of electricity. One alumnus who had just taken a tour of the building was heard to remark, "the electron sure seemed to be a lot bigger in those days, didn't it?" Then again, perhaps it was the ghost of progress that haunted the halls of Atwater Kent last Saturday morning more the the ghost of the past. It was a ghost of microchips more than of trolley cars and of manned spaceflight more than of massive electric generators.

The man who was to give the rededication speech for the building that morning at 11:00 A.M. in Alden Hall was a Navy flight surgeon, Captain Joseph P. Kerwin. Kerwin, a lean, handsome man of 49 had been a NASA astronaut since 1965. A graduate of Holy Cross in 1953, Kerwin later earned his doctor of medicine degree from the Northwestern University Medical school before attending the U.S. Navy School of Aviation Medicine, Pensacola, Florida. He earned his pilot's wings from the Navy in 1962 before being selected as a NASA astronaut. In 1973 Kerwin was one of the first three crewmen to inhabit the Skylab orbital workshop.

In an interview before his speech Kerwin elaborated on the future of man

in space as well as his personal experiences with space flight. Of immediate concern to the future of the entire American effort in space is the status of the Space Shuttle, Columbia. According to Kerwin the next launch date for the shuttle has not been set, however, he expects that it will be in early November. Originally, the launch had been scheduled for this week. The postponement of the launch came about because of

what Kerwin called, "One of the simplest, old fashioned problems." This problem was a spill of some highly corrosive fuel used in the orbiter's reaction control system. According to Kerwin a metal coupling ring which had corroded from exposure to the fuel was the cause of the spill. The result of the accident was that about 300 of the 31,000 heat resistant tiles which protect the orbiter and its crew from the heat of reentry into the

atmosphere were dislodged from the skin of the spacecraft. Kerwin said that the tiles themselves were not damaged in the accident and that they will be reattached while the spacecraft sits on the launch pad.

Kerwin seemed to regard the space shuttle as only a first step for the American space program in the eighties

(continued on page 10)



— John Mar.

500 attend rededication ceremony

by Greg Doerschler
Newspeak staff

As an attentive audience of WPI faculty, students, and alumni watched, a plaque was unveiled by Raymond J. Forkey '40, Chairman, the Capital Program, and Dr. Harold Black, WPI class of '21. The unveiling marked the official

rededication of the newly renovated Atwater Kent Laboratories, where the plaque will be placed. The rededication ceremony was held in Alden Hall Saturday.

The ceremony opened with an invocation by Rev. Paul D. Schoonmaker, '56. This was followed with a welcome by Paul S. Morgan, Chairman, WPI Board of Trustees. Mr. Morgan presented a brief history of the Atwater Kent building, emphasizing WPI's "commitment to provide physical facilities comparable to the quality of the faculty and the curriculum." He also recognized the Worcester area community for its support in making the renovations possible.

Raymond Forkey acknowledged the vast alumni support, noting that it is largely this support which enables the college to function since tuition only covers about half the operating costs of the institution. He then called upon Dr. Black to assist in unveiling the plaque.

Dr. Harold Black, one of WPI's most distinguished Alumni, is the inventor of negative feedback, a concept which revolutionized electronics design and

telecommunication. He holds 62 patents and has been awarded a gold medal for distinguished achievement by The American Institute of Electrical Engineers. He has recently been elected to the Inventors Hall of Fame, joining only 38 other inventors including Thomas Edison, Alexander Graham Bell, Eli Whitney and Robert Goddard. Dr. Black's role in the unveiling and reading of the rededication plaque was to honor the many generous alumni and friends of

(continued on page 9)

Fund raisers being organized for Da Dee

by Debbie Allen
Associate editor

Da Hai Ding is an undergraduate student here at WPI studying computer science. He is from Shanghai, and is one of the first students from the People's Republic of China to study here in recent times. During the early part of this year, he brought his concern about Da Dee, his only sister, to his English teacher, Kay Draper. Da Dee had been ill with kidney disease since infancy and the damage has been progressive over the years. Kay Draper, herself born in

China of missionary parents, has a background in understanding these people.

She spoke to Dean Brown about Da Dee's illness. Dean Brown contacted his brother-in-law, who is a doctor affiliated with the New England Medical Center. Through him, Dean Brown and Kay Draper were able to speak with Dr. Jordan Cohen, Director of Nephrology at the New England Medical Center. Dr. Cohen found a doctor (Dr. Susan Hou)

(continued on page 2)

Correction

In last week's article on fraternity parties, *Newspeak* incorrectly reported that a resident of Dean Street is pressing charges on members of KAP for throwing fireworks into his living room window. The fireworks were, in fact, thrown onto his porch, not through a window into the living room. He is not currently pressing charges against the brothers as last week's article stated.

ASME visits Seabrook

by Robert DeMattia
Newspeak staff

On Tuesday, September 29th, the WPI chapter of the American Society of Mechanical Engineers (ASME) sponsored a tour of the Seabrook Nuclear

facility began. The tour guide went first to reactor number one, which is 50% complete. The top of the dome-shaped containment building stands 210 feet high. The dome-capped cylinder was in



Seabrook's control room.

— Jim Dyer.

Power Station in Seabrook, New Hampshire. The tour of the 3.54 billion dollar facility began in the Education Center, a miniature museum which shows not only how the plant operates and what it looks like inside, but exhibits other kinds of energy sources. A slide show and movie about Seabrook were also presented in a small auditorium.

After the group was given an idea of how each part of the plant functions in relation to other parts, a bus tour of the

three phases of completion. The bottom third of it was finished, with the white concrete showing. Above this was wire mesh spaced about 4 inches apart and with rods about three-quarters of an inch thick. This mesh would be filled in later with the concrete. The top third of the dome exposed the layer beneath the mesh which consists of welded steel plates. It was explained that the outer walls of the containment facility are 4½ feet of reinforced concrete. The inner

(continued on page 8)

Mulqueen new counselor

by Shauna Donovan
Newspeak staff

The WPI counseling services have made a change this year. Maggie Mulqueen replaced Ellen Thompson as the female member of the staff. Maggie comes to us from the University of Pennsylvania in Philadelphia where she earned her masters degree and is presently working on her PhD in counseling psychology. She acquired her bachelor's degree from North Western University in Evanston, Ill. While in Pennsylvania, Maggie worked for various counseling groups, including the University of Pennsylvania Counseling Service, Philadelphia Feminist Therapy Collective, Inc., and the University of Pennsylvania Women's Center. In these various groups Maggie worked as an intern and has had experience counseling students on personal academic and vocational concerns. She has conducted group therapy with adult women and has co-led assertiveness training, relationship, and sexuality structured groups as well as workshops on depression, sexuality, and personal growth. Maggie was also a trainee in Women in Transition, Inc. and has been trained to lead support groups for women experiencing separation or divorce.

As her background indicates, Maggie is committed to helping females and plans to become involved in women's issues at Tech, dealing with the question, "What is it like to be a woman here?" Maggie plans to meet with faculty and staff to improve people's consciousness of what it is like to be a female Tech student and to try to get them to be supportive of female consciousness. One example of how she is achieving her goal is her participation in the Women's

Awareness Group on campus. Maggie will be facilitating consciousness raising for the organization. These are groups in which women can talk about what it is like to be a woman through related issues. The groups are unstructured and designed for women to share experiences and make changes. It is a method of assuring a woman she is not alone and provides a productive way to channel anger, to help her through "the pain" and enable her to move on. Maggie is interested in becoming involved in the Women's Awareness Group as well as other women's groups as soon as her time will allow it.

Feeling challenged with the unfamiliarity of a school like Tech, Maggie is enjoying her job. She is not used to such a small school, but likes the closeness of the students. She also finds challenge in dealing with the male-female ratio of both students and staff. She sees good points and bad points in this feature of the school. Negatively, Maggie sees a lack of role models in the absence of professional females. This is too bad for both male and female students. She also realizes it is hard for women to be on display so much. Positively, Maggie likes the supportive nature of the females, as is shown in the number of women's organizations. Maggie feels women should be supportive of each other and is happy with the network of women she sees working together. She feels this experience will be an asset to women with their professional careers. In all female groups women tend to

ARL leader in hydraulics

(continued from page 1)

stand being screened out of the water and would perish. In the case of the louvres, it was found that even their most exact efforts could be questioned by biologists because they had used a New Jersey alewife or New England perch, neither of which were applicable in the rivers of Ontario.

After these fish are screened off an angular mesh, they have to be pumped back to their habitat. There were several experiments conducted comparing the damage and efficiency of the impeller and peripheral jet pumps. Try picturing five researchers picking tiny larvae out of a swirling bath of water with eyedroppers. "They got pretty good at it, after a while," Paul said.

After studying the fish, the next stop was a building with an interior mostly filled to 10 inches depth of water. Inside, Carl Silan described the intent of the project. The National Science Foundation wanted information about thermal plumes, the effect of a stream of heated water on a body of fluid. To do this, ARL arranged 450 thermocouples over the area of the tank, using a PDP-11, 34A to record the results of each temperature measurement in eighteen seconds.

The final building on the tour promised to be interesting since, for no apparent reason, it had a life preserver hanging on the wall. Upon climbing the wall of an inner structure, one could see a large basin — similar to that which houses polar bears at the zoo. Inside was a cage-like enclosure about eight by five feet, with two large drains in the middle.

Overall, Alden Research Laboratory is a practical, state-of-the-art operation addressing modern problems in hydraulics engineering with a combination of modelled experimentation and advanced computer simulation. Professor Hecker summed up the basis for modern hydraulics study: "If you can solve those mathematical equations that govern the phenomena which are three-dimensional, time-varying, then you have a model." When these cannot be equated, experimentation is used.

They are presently using the most of their 20 acrea facility. At their present rate, the engineers and workers at the laboratory will continue to join the leaders of the world's fluid mechanics' community. It is a beautiful area with an atmosphere of conscientious research.

Black Landmarks in Gordon Library

Black American Landmarks, an exhibition opening at Gordon Library will present a history of black America through architectural sites. In 1979 the Historic American Buildings Survey (HABS), a program of the National Architectural and Engineering Record (NAER), undertook the documentation of 76 sites selected as National Historic Landmarks for their significance in black history based on those who inhabited the buildings or the activities that occurred there. Black American Landmarks was organized by NAER, Department of the Interior, and developed for national tour by the Smithsonian Institution Traveling Exhibition Service.

Two contrasting environments have largely shaped the black experience in the United States. The first was the Southern farm or plantation on which the vast majority of pre-20th century blacks worked and lived. The second was the urban ghetto, predominately a 20th century creation, which developed primarily as a consequence of the migration of rural blacks to the cities.

Da Dee Ding

(continued from page 1)

who was fluent in Chinese. She contacted Da Dee's doctor in Shanghai to discuss her medical history.

They determined that Da Dee should be brought to the United States for diagnosis, dialysis, and a kidney transplant later. The facilities for this advanced treatment are not available in China and if Da Dee could be treated here, her chances for a recovery could be as high as 95%. If she were not to receive this advanced treatment, she would have six months to a year to live.

The major hurdle to this is finance. It was estimated that \$45,000 would be needed for hospital care, dialysis, and the operation. Transportation costs would add to this. Dr. Hou encouraged Ms. Draper to set up the International Kidney Transplant Fund. Many of Dr. Hou's friends and associates have already contributed to this fund. One

The exhibition focuses on lesser-known figures and events in black history associated with 22 sites. These sites include Yucca Plantation in Melrose, Louisiana, where Marie Therese Coin-Coin Metoyer rose to prominence as a black landowner; the oldest extant Afro-American church built in 1805 by black laborers and craftsmen in Boston; and Villa Lewaro, Madam C.J. Walker's country estate in Irvington, New York, built by noted black architect Vertner Woodsum Tandy.

Other sites associated with better-known figures include the home of Colonel Charles Young, first black military attache; Henry Ossawa Tanner, one of the best known black American painters; and Will Marion Cook, the man credited for bringing the blues to Broadway. The exhibition is developed thematically covering black Americans' contributions to education, civil rights, political and military affairs, and the humanities. The photographs are supplemented with panels providing information on the building sites and the people associated with them.

phase of the initial fund raising has been assumed by WPI.

On Thursday, Oct. 1, a meeting was held with Dean Brown, Roger Perry, and student representatives of the IFC, student government, resident advisors, Newspeak, and the Social Committee. The purpose of the meeting was to provide a background on Da Dee and to discuss organization of fund-raising events. At this time, the IFC has made no definite plans for fund raising activities, but SAE and Lambda Chi donated the proceeds from their recent parties to the fund. The possibility of a large fundraiser with the student organizations was discussed. This event could attract attention from the community and generate interest and support for Da Dee's case. Ideas for fund raises should be forwarded to those students on the coordinating committee.



Maggie Mulqueen.

— Shauna Donovan

show their leading ability much more than in mixed groups, while males tend to be more commanding in mixed groups than in all male groups. Tech provides optimum opportunities for both males and females to increase their leadership abilities. Maggie also finds challenge in the absence of a psychology department. Coming from a liberal arts background she misses the support.

Maggie stresses to students the importance of developing the "other side" of one's personality. There is more to a college experience than just academics. Maggie fears that the high pressure of scholastics at Tech makes it difficult for

(continued on page 10)

Thefts occur on campus

by Greg Doerschler
Newspeak staff

Campus Police have reported the theft of a stereo receiver valued at approximately \$250 from a room in the Stoddard Complex. The theft occurred on Saturday, September 26 between 9:30 p.m. and 1:50 a.m. Sunday morning. Entrance was gained through a window which was left open.

Also, numerous license plates have been stolen from vehicles parked on campus in the past two weeks. Anyone who spots suspicious activity can call Campus Police at 793-5433.

Ting is new Computer Science head

by Mark Christenson

Computers are the future. Statistics affirm computer science as a growth-leader among technological fields in the world today. Recently, it has been WPI's good fortune to acquire a new CS department head who is both experienced and up-to-date. Meet the man, Dr. T. Chin Ting, who would like to see all WPI students exposed to CS, to some degree.

Born in China's "most beautiful city," West Lake, Ting came to the U.S. in 1964. In 1965, he received his masters from Central Washington State. As a grad student at the University of Washington, Ting was a math major. From '68 to '69, he attended Washington State University, where he earned his second masters and PhD.

Dr. Ting began his teaching career as an assistant professor at Virginia Polytechnic Institute and State University in 1969. While at the school, he helped in the funding and establishment of a computer science department.

Starting in 1973, Ting held an associate professorship at the Georgia Institute of Technology. In 1978, he became a computer scientist for the National Bureau of Standards, to which he is now a permanent consultant.

As of September 1, 1981, T. Chin Ting assumed the post of Computer Science Department head. He first learned of WPI some one-and-a-half years ago from a colleague. Talking to this colleague, an ex-professor from the University of Oregon who had visited the school, Ting was impressed by the innovative concepts of teaching and learning.

Since his arrival at WPI, Dr. Ting has found the campus and curriculum to be

unique, especially the IQP and MQP. Commenting on the Plan, he "likes the whole idea of more efficient learning," and sees it as a "breaking-away from traditional stereotypes" in education.

WPI's computer science staff is of average size and education level, says Ting. However, the teachers have a better attitude, and are "young, energetic, and dedicated" which makes them superior, he feels. Being understaffed is a common problem among colleges. Industry provides stiff competition for top people with better salary, research opportunities and facilities.

Although educators with PhD's are hard to get, Ting notes that three have been added to the department in the last year, including himself.

Asked his opinion about the WPI student body, Ting stated that he considers it too early to make any broad conclusions. He did describe the students as self-motivated hard-workers, which creates a heavy faculty burden. Also, WPI students possess an above-average degree of computer literacy.

Perceiving one major weakness in the Computer Science department, Ting hopes to see improvement. One item of great interest to all CS 1001 students: next year will see the elimination of frustratingly obsolete punched cards. Also under consideration is a change in the language used in the introductory programming course, from Fortran to a newer language.

Delivery of a \$225,000 NV/8000 mini-computer, being donated by Data General Corporation along with sixteen terminals, is slated for the spring of 1982. Ting explains the generosity of D.G.'s gift with the fact that industry is constantly seeking new, young scientists. Projected CS job potential for the foreseeable future is so great that educa-

tion cannot hope to keep up with the demands of industry.

A familiar dilemma to CS students is the insufficient availability of free computer terminals at many instances. An additional sixteen terminals for the new system are to be purchased next year, in hopes of alleviating the problem. Ting

connected with the Social Sciences department, the course would investigate the social implications of computers, such as electronic funds transfer and home video terminals.

Dr. Ting stresses that "people are of greater importance than equipment in this fast-changing field" of computers.



Dr. T. Chin Ting.

— John Delaney.

points out that these terminals will be an expense to the school, along with the computer's significant operating cost.

Other changes currently under contemplation include improvements to CS micro- and mini- computer labs located in the newly renovated Atwater-Kent building, as well as a brand new computer course. Possibly titled "Introduction to Modern Computing," and con-

He encourages all students, not just CS majors, to take advantage of the school's excellent computer course offerings.

Ting believes that informal interaction with CS faculty affords the best appreciation of computers' impact on the future. Finally, he welcomes the opportunity to speak to the student body about the growing applications and implications of computers in our modern world.

Advertising methods presented

by Bob Sweeney
Newspeak staff

Advertising techniques deceive the conscious mind and snare the subconscious, according to Pam Wright, guest speaker for the Women's Awareness Group (WAG) last Tuesday. Ms. Wright has conducted extensive research on the use of women in advertising and has compiled a slide show, which she presented in HL 109. The slides exposed many elements of advertising that many people neither see nor realize. A prevalent point was the use of sexual anxiety and titillation to sell a product.

To assure that advertisements will be effective, said Ms. Wright, companies must make readers of magazines stop to read their ads. Believing indications that the sexual revolution has caused considerable sexual anxiety, many ads have elements which strike that anxiety. Use of these elements can involve subtle inferences to lesbianism in women's magazines. Models are placed in postures or situations that one could read as provocative, but the conscious mind would not expect such concepts in an ad.

The subconscious, she continued, is reached by the picture's message and calls the reader to pay attention to the ad. Scenes of pseudo-lesbianism often portray the actions of women as not meant for their own pleasure, but for the titillation of some male — either in the background or inferred by the photo. Also, although black models are rarely used in advertisements, they appear most frequently in ads involving pseudo-lesbianism.

Ms. Wright relates this subject to another technique with what she feels are adverse effects on women: perpetuation of the 'myth of the woman.' In many ads, women are portrayed as "precious, sensual and slightly dangerous." As one example, women in men's magazines are positioned either behind or below men, hanging on to them. If a woman is not kept under control, it can be gathered from many ads that they will destroy their men.

One other myth Ms. Wright observed involves the working woman. When a woman is shown in a professional situation, there are sexual implications — and very often she is in her underwear. The message received is that

women usually become successful with sexual means.

The most dangerous uses of women in advertising that Ms. Wright has found concern sadism and the glorification of such behavior. Two very predominant colors used in advertisements, black and red, are closely associated with sadistic situations. Black, representing violence, is used for men while red, for blood, is worn by women. It is not unusual to witness scenes in ads that some would consider perverse in real life.

Women are viewed as vulnerable to men and as object, not a person.

This dehumanizing makes violence against women seem not quite as evil. This sadistic streak reaches such extents as hangings, either faked by model or real for mannequins.

Many more instances of psychological manipulation of the public exist, said Ms. Wright, but most viewers of these ads are ignorant to what is really going on in the picture and text. Words can be and are hidden in pictures and perceived only by the subconscious. Sexual drawings are hidden in photographs, implanted by highly technological methods.

P & G gives presentation to AIChE

On Thursday, October 1st, Frank Consoli, Gary Gardinier, and Ken Thode, representatives of Proctor and Gamble Co. made a presentation to Senior and Graduate Chemical Engineering students in Goddard Hall 227. They showed slides, which gave an overview of their company, and discussed the various chemical engineering opportunities at P & G.

Mr. Gardinier, from P & G's Mehoopany, PA plant, presented an award to AIChE President John Kelly. This award will be used to subsidize the expenses of sending Chemical Engineering students from WPI to AIChE sponsored regional conventions. At these meetings technical papers are presented by students.

Thursday's program was sponsored by Proctor & Gamble and the AIChE.

Comp period overlaps intersession

by Mike Beach
Newspeak staff

This year will be the first time that the January Competency Exam period will coincide with the first week of Intersession. Intersession will run from Jan. 11 to Jan. 22, while the Comp will be held from Jan. 4 to Jan. 13 (On Jan. 25 C-term registration begins.) The overlapping period will be 'A-term' of Intersession, the first three days of Intersession, according to the 1981-82 Operational Catalog.

Intersession will still offer courses in subjects ranging from Astronomy to Dance. According to Melanie Lajoie, coordinator for Intersession, 8 courses had to be dropped, leaving a selection of 72 courses, 6 of which are available for credit. She feels Intersession will be about as successful as it has been in the past, with an average of 35% student participation.

In an attempt to reduce dorm vandalism during January, the administration decided last year to overlap Intersession with the Comp.

Robert Reeves explained that "a dorm is either open or closed." To open the

dorms during January for just those taking Comps, with no RA's present, creates a risk of vandalism. Rather than stay at home all January, some students return to their dorm rooms to party.

By this change in scheduling it is hoped that damage can be reduced. Reeves feels it is unfair to have an RA present in a building that is being used only by a few Comp-takers.

Steve LeViness of the Committee of Concerned Students feels that several seniors who live in fraternities will not have optimum conditions to take the comp. Though there are people working on projects during the October and March Comp periods, January is the time that more than 200 Seniors try to complete this graduation requirement. Any change in the present schedule will only occur if many people complain often, believes LeViness.

Dean Grogan expects that students will be involved with Intersession activities enough so they will not interfere with those seniors taking the Comp.

Dean Bolz explained the present arrangement as an experiment. If this schedule is unsatisfactory, then it can be changed in the future.



John Kelley, Gary Gardinier and Prof. Robert Thompson.

— John Mar.

WPI 24 - Colby 14 Football takes 3rd straight

by Duke Dalton
Newspeak staff

The Engineers posted their third win and remained undefeated as they defeated the Colby Mules 24-14, before 4213 parents, alumni, and students at Homecoming. Bob Montagna scored two touchdowns and quarterback John Scacciotti added a third rushing touchdown. This win sets up a crucial battle with Hofstra in two weeks at Alumni Field. Both teams are 3-0 and have never played each other.

WPI gave up more first downs than Colby, but the defense played well enough to enable WPI to win. Paul Dagle turned in an awesome game at linebacker with 14 tackles and Chalmers

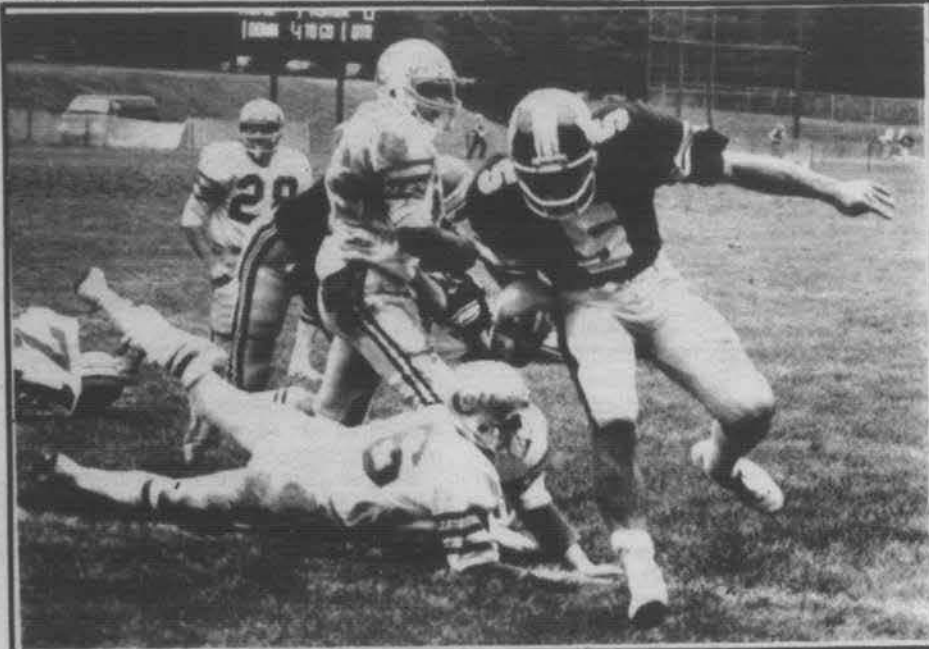
Brothers played like he wants to be an All-New England candidate as he added on 12 tackles. The rest of the defensive unit performed up to par with occasional lapses. The big break of the game for the WPI defenders occurred when wide receiver Matt Maley snuck past the secondary and was around five steps ahead of the nearest defender. Mule Quarterback Tom Pone overthrew him and that drew a sigh of relief from the Worcester faithful.

Colby tried to out-finesse WPI throughout the game. When Colby was stopped in their first possession, they hustled their punting unit out on the field and WPI was called for having too many men on the field when the Engineers



Chip Biena plows through the Colby line.

Steve Knopping.



Monty sidesteps for a touchdown.

Larry Leung.

were changing to their punt return unit. Colby's punter Matt Maley decided to run with the ball once but then when he saw he couldn't make it, he changed his mind again and punted the ball. Colby also inserted a running play where a back would take a hand off, go outside and hand off to another back, who was running in the opposite direction. All Colby could do was keep the game close until the middle of the fourth quarter.

The offense scored two touchdowns in the first quarter. Scacciotti took it in himself on an option play to the left. He was caught off guard of the huge gap in the Colby defense. "Two men went to the outside, and I cut inside" said the quarterback. "I was surprised by the

large hole in the defense." Another easy touchdown was scored by Bob Montagna, who ran in four yards before the first quarter expired to give WPI a 14-0 lead. This four play drive was set up by a 30 yard punt return by Mike Valiton, who made a gutsy catch in the previous touchdown drive by taking a crunching shot, as he caught a 16-yard pass on third down.

WPI and Colby performed to a standstill in the third quarter as neither team moved the ball. Then Chip Biena galloped for a 48 yard run and the band and crowd woke up. On a fourth and four, John Scacciotti looked like he was going to be sacked. At the last second, he flung a desperation pass in the direction of tight end Mark Hannigan. The pass was good for four yards and when the referees measured for the first down, Hannigan had made it by an inch. Montagna scored his second touchdown on second down and iced the game for Tech as they had a 24-8 lead. With 5:51 left in the game, Colby scored a consolation touchdown with 1:08 left as WPI was flagged for a controversial pass interference call in the end zone. Colby scored one play later on a one yard, Francis Kelley run.

Linebacker Paul Dagle turned in his second great performance as a backup to Mike Krampetz, who injured his knee last week. "The whole defense deserves credit and they stuck together. If it wasn't for Mike, who I push and he pushes me back in practice to perform at peak level, I wouldn't have performed as well as I did today" said Dagle. WPI may need some incentive as they host highly-regarded Hofstra at home at 2:00 on October 17. Coach Weiss said, "We are 3-0 and we want number four."

WPI "Stars"



John Scacciotti
Back of the week.



Paul Dagle
Defensive player of the week.

Field Hockey undefeated 8-0

by Kelli Mackey

The WPI field hockey squad didn't let the alumni down as they upped their perfect record to 8-0 this homecoming weekend with a 3-2 victory against Franklin Pierce College. Tech clearly dominated the first half in both ball control and aggression. A powerful centering drive by Terese Kwiatkowski proved to be the first goal of the game. Tech continued to dominate the play with skillful passing by the offense. And, as a result of a Virginia Noddin goal, Tech was ahead 2-0 by the half.

The second half turned out to be quite a match for the girls. With the loss of link Linda Mattson due to an ankle injury, WPI had its work cut out for them. Pierce was determined to get some goals and the game became a very physical one with a lot of stick interference and advancing calls. Pierce broke into the Tech scoring circle for the first time in the game to get some shots on goal. Goalie Cathy Dalton had some good saves in goal. With good defensive clearing by Chris Clancy and Cathy Cronin Tech managed to hold off any scoring for most of the game. However,



Rich Rocheban
Hit of the week.



Chalmers Brothers
Lineman of the week.



Ron Ranauro
Lineman of the week.

(continued on page 5)

Women's tennis takes two

by Lisa Longwell
Sports editor

The WPI Women's Tennis Team increased their record to six wins and one loss with two consecutive convincing victories this past week. On Monday, WPI surprised a seemingly strong St. Anselms squad by taking every match without the loss of a set. Only the second doubles were pushed to a second set tiebreaker. Moving down to number two singles, Lisa Longwell was the first off the court with her first singles win for WPI. The other singles winners in order were Debbie Biederman, Jenny Davis, Stacie Burkhardt, and Cindy Gagnon. Adding a couple points for WPI in the doubles slots were Liz Groleau - Beth Martin and Debbie Harrow - Gail Strzepa.

Bryant College, most assuredly eager for revenge, was sent home Wednesday with a 6-1 loss. WPI wasted no time and



Captain Beth Martin drills a backhand.

— John Mer.

took the first six matches with victories by Debbie Biederman, Lisa Longwell, Jenny Davis, Stacie Burkhardt, Liz Groleau - Beth Martin, and Debbie Harrow - Gail Strzepa. Bryant managed to score the final point of the day with a third set victory at number five singles.

Upcoming home matches will be Wednesday, October 7, against Suffolk and the following Thursday against Worcester State. Due to extenuating circumstances, WPI hasn't actually competed with Worcester State in the past two years; therefore WPI has yet to really beat Worcester State. Two years ago, our match was rained out and never rescheduled. Last year after the warm-ups, Worcester State decided to forfeit the match due to some missing players; however they did have enough players to win. This will be a big match which WPI is hoping to win. We would like to strongly urge everyone to come support our team.

Women's volleyball

by Marion Keeler

WPI Women's volleyball continued their season this week with one win on Monday night. Last week was a busy week for the women who played two tri-matches and one regular match three days last week.

The team began last Monday night with a victory over Merrimak in a tri-match at home. Barb Thissell had good serves in the first game in which WPI won 15-9. They wrapped up the match by winning the second game 15-10. As the night continued, WPI played RIC but failed to gain a victory in that match. Although they were beaten in the first game, WPI returned in the second game still fighting hard. Co-captain Karen Dzialo gained eight points on her serves that game, yet Tech still lost the game and likewise the match.

On Wednesday night the team travelled to Franklin Pierce for their first away game. Franklin Pierce definitely had the home court advantage. WPI suffered not only by playing on a court that left much to be desired but also in the injury of starter, Maria Norman, who sprained her ankle. Junior Karen Casella had a good night of serving. She gained eight points in the third game which Tech won 15-11. Unfortunately Tech lost the other games and the match three games to one.

One homecoming, WPI travelled to Holy Cross to play in a tri-match against Cross and Bryant. WPI began the morning by playing Bryant in two well defended games. Despite the good serving of Barb Thissell who gained eight points, WPI lost the first game. They returned in the second game ready to win and likewise gained a big opening lead 7-0. Bryant played well though and soon closed the gap and won the game 15-13.

WPI later played Holy Cross still seeking a Homecoming victory to bring

back to Tech. They played excellent their second game but Holy Cross was psyched by winning the first game and did not give up in the second. Fran Weiss made her debut as a starter in the second game and played well. WPI still lost the tri-match 2 games to 0.

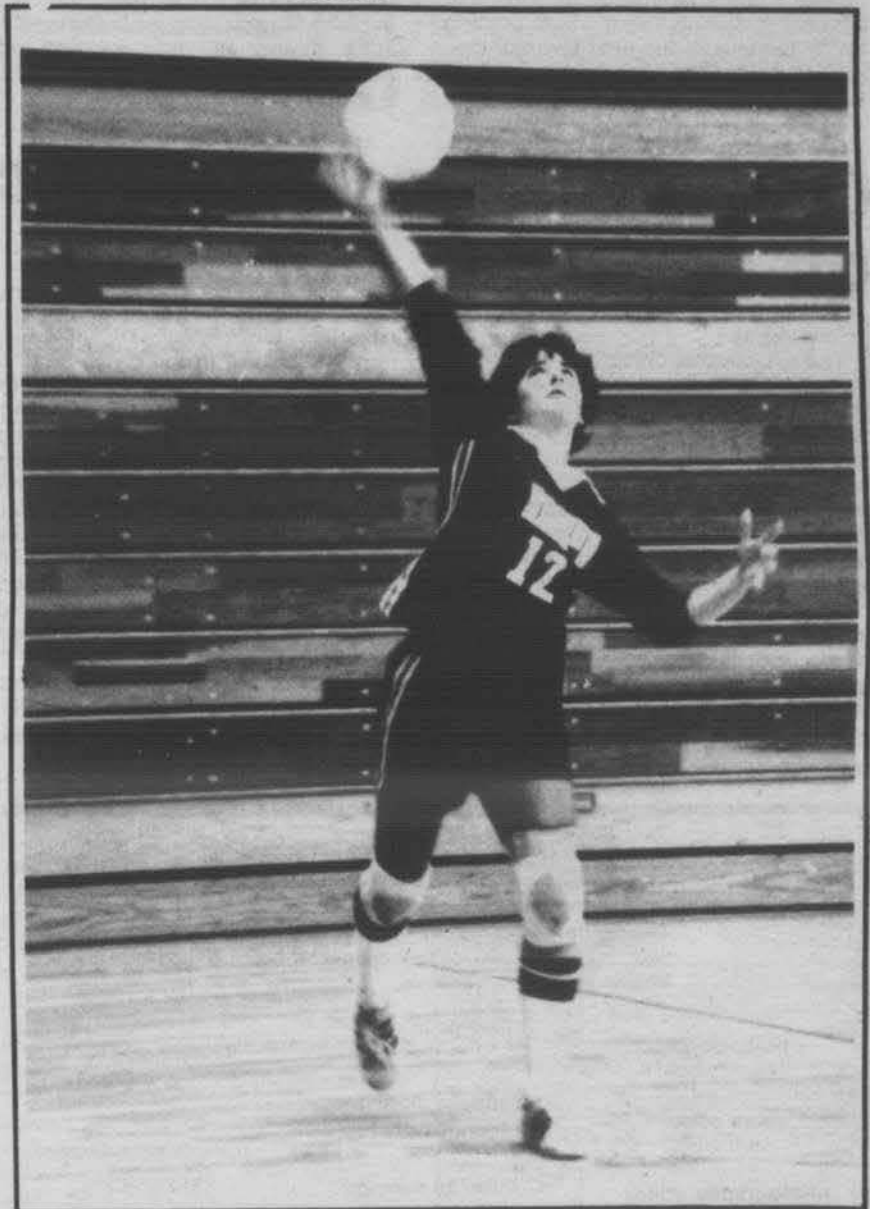
The women have two matches this week. One is Tuesday away at St. Anselms. The other is at home on Saturday morning at 11:00 a.m. against Assumption in Harrington gym.

Women's ultimate

After four years of recruiting, WPI now has a Women's Ultimate Frisbee Team. This is indeed a reflection of the growing number of women at Tech, athletically minded ones at that.

Ultimate Frisbee has similarities to soccer and football. The object of the game is to score a goal by completing a pass over a goal line. If at any time a pass is not completed successfully by the offensive team, it is a turnover of play and the defensive team takes the offensive at the point of incompleteness. The game requires a good deal of running and a tad of aggression. Ultimate is not a contact sport but can be every bit as demanding.

LUOW (Ladies Ultimate of Whoopie) has a full fall schedule. If you are interested in playing, learning, or even just watching once in a while, the team meets every day on Higgins House lawn, at 4:00. All you need to bring is interest.



Karen Casella puts up a serve.

— Jack Nickerson.

Soccer defeats Lowell

by Stephen Demers
Newspeak staff

The Soccer Engineers recorded their first regular season victory over last year's ECAC Division II champs, the University of Lowell by the score of 2-1 last Thursday.

"We didn't really play any better," commented coach King. "We've been playing well right along; we just haven't been winning."

Four changes were made in the starting line-up: freshman Jay Dumphy took over the goal tending duties, junior Joe Wysocki and freshman John Meehan were placed on the fullback line, and Amaro Concalves was moved back from striker to stopper.

The Engineers totally dominated the first half. They controlled the game but could not get many shots off. Still, Ken Lindberg found the back of the net for WPI's first goal.

Lowell came out storming in the

second half dominating play for several minutes and climaxed their attack with the tying goal. The ball bounced both ways for the next few minutes with neither dominating or controlling the game. Not wanting to see another game go into overtime, senior Tony Pileggi scored the second and winning goal for the Engineers. The goal seemed to have "put Lowell in their place" and "took the wind out of the sails" because from that point on the game was once again all WPI.

"It was a good all round team effort," said Coach King.

One negative aspect resulting from the game is that senior co-captain Rick Powell injured his ankle and will have to miss the next few games.

Support your Soccer Engineers this week in their first two home games on Wednesday at 3:00 p.m. and Saturday at 11:00 a.m.

... Undefeated

(continued from page 4)

after a penalty corner against WPI, Pierce sent a powerful drive to the corner of the cage making it 2-1. Tech again took control and succeed to score another goal raising the score to 3-1 with about 15 minutes left in the game. The play however, began to get sloppy as less ball control was used which resulted in more penalty whistles. Pierce came back with another strong drive and finally scored making it 3-2. With three minutes left in the game the Tech defence showed its desire to win as they held off all attempts by Pierce to tie the score.

Earlier this week Tech played two tough opponents. On Tuesday, September 29th the girls travelled to Amherst to find a determined Amherst squad waiting to avenge Tech's Victory over them last year. The game was fast paced and well controlled. Tech took the lead early in the first half and continued the offensive pressure on adding two more before the half. Tech scored once more

in the second half giving them a 4-0 lead. The defence was really put to work and goalie Angela Padavana made some excellent saves to hold off the Amherst attacks. Amherst scored midway into the second half on a hard clean shot from the top of Tech's circle. Tech held on and secured a 4-1 victory.

On Friday, October 2 Tech defeated their tough rival, Clark University, in the rain. Despite the weather the girls did well with Karen Brock putting on a fine performance as she scored both of Tech's goals, which were beautifully placed drives to the corner of Clark's cage. The defense played hard and succeeded in shutting out the tough Clark offense.

This weeks wins bring the WPI Women's Field Hockey Team's record up to eight wins and no losses. They will host Tufts this afternoon in an attempt to continue their undefeated season.

LETTERS

Increase in activities to benefit all

To the editor:

Your editorial of last week, "Moratorium should be placed on SAB clubs," was greatly disturbing to us. We feel that one of the most important phases of the WPI community is its wealth of special activities available to all students and faculty. It seems to us that any increase in the activities available to the WPI community would be of great benefit to all. This is irregardless of what type of activity.

The WPI Microcomputer Society was accepted in Term D of last year by WPI as an official WPI organization. Our activities cover many areas; we provide an informal forum between many departments and disciplines on the subject of microcomputer related devices. As these devices become more prevalent, they effect more and more people. We provide speakers on topics of current trends in the computer field, such as "NASA's Great Computer Debate" and "Trends in Silicon Valley," both coming up on campus in the next few months.

That is what the Microcomputer Society is. I am not really sure what

Women's Crew does, but I am sure it is an equally worthy activity. The issue here is not what our activities are, but whether new activities should be allowed. What is the Student Activities Board? It is a body made up of student leaders of many of the organizations on campus that has three major duties. Most important, unfortunately, is the disbursement of limited funds to its member organizations. These funds are provided to the SAB by the Board of Trustees of this institution. The second major activity is the control of the use of the red SAB van for club activities. Finally, and this should be most important in the eyes of the WPI community, it is a forum where grievances can be aired, and where the campus organizations can interact.

We feel, especially as a new WPI sanctioned organization, that we MUST be part of any organization that will help us relate to WPI. The SAB seems to be such an organization, as far as voting on such things as van use and other campus related activities are concerned. If the SAB can only be concerned with

distributing funds to member organizations, it might be seen that those organizations would obviously not want new members as it cuts down on the funding to those already members. This seems unfair to those organizations who are not in the SAB.

It would seem to us that there are a few "proper" courses of action. The first would be one that exists now. With a moratorium, this is unfair. The second is to have all funding delegated by vote of all organizations, whether SAB or not. This would virtually eliminate the SAB, which is totally undesirable. The final alternative, as we see it, is to have two types of membership in the SAB, in addition to the two year probationary policy now in use. New SAB members, upon acceptance into the SAB, would be entitled to vote and use the van according to current policy. After two years, a club could request funding and the SAB would vote whether to grant, and how much. If a club was not granted funding at that time, it could request funding again only after another two years have passed. In addition, by a vote of the SAB, any SAB member organization could be placed on a two year probation if it should be decided that funding should be removed. In this way, if members felt that some existing club should no longer receive funding, it would be voted on by the SAB. If the vote carried, the club would still receive funds for two years, at which time another vote would be taken to actually remove the funds. The club would then be able to go through the two

year funding request cycle if they should wish.

The purpose of the above is to allow the SAB flexibility and also allow all organizations to be members, without a direct tie line to the cash flow.

Please do not lock out valid and necessary organizations merely because funding is tight. There are ways around such drastic actions that are more equitable and should be considered first. We feel that a "Moratorium" is one of the more short-sighted alternatives.

David Gewirtz '82

President, WPI Microcomputer Society

CAP discusses new policy on academic honesty

To the editor:

The educational objectives of the Plan are best met in an atmosphere of mutual trust and respect among all members of the academic community — students, faculty, and administrators. For that atmosphere to flourish, each individual must subscribe to and support high standards of academic honesty and integrity. The Committee on Academic Policy is attempting to define and to bolster those standards. It is also formulating uniform and appropriate procedures for dealing with violations of standards of academic honesty and integrity.

The Committee is anxious to receive comments from as many people as

possible, since each of us has an important stake in the outcome of this study. Statements of policy and philosophy, suggestions for the handling of allegations of dishonesty, descriptions of personal observations and experiences, and any other relevant material are all welcome. The Committee would be particularly happy to have suggestions for increasing involvement by students, faculty, and administrators in the formulation of policy. Written comments should be sent to the CAP Chairman, Professor Douglas Woods, at the Department of Social Science and Policy Studies no later than the end of Term A. Material so designated will be held in strict confidence.

Professor Douglas Woods



COMMENTARY

Lost in the rush

by Greg Dearborn
Newspeak staff

The end of a season is approaching. You can feel it in the cold bite of the wind across the quad that was so warm just a few days ago. You can read it in people's faces, as worries about whether this course will be passed, whether that term paper will be finished, begin to build.

For the most part, even the freshmen have gotten into the swing of things. Less often will you see a dazed and confused face after Monday morning. New friends have been made, new activities have been joined. "MQP" and "punt" aren't part of a foreign dialect any more.

Speaking for myself, I think I've adjusted splendidly. When I first came here I was scared, but enthusiastic. I joined all the activities that interested me and I had time for, hoping to make lots of upperclassmen friends. Now I have a group of people around me that like the same things I like, and have been through it all before. They've given me lots of good advice about making it through all-nighters, and how to survive Cafeteria Eating and the Punting Blues. People wave and smile at me, what more could I ask for?

Yet somehow I've seemed to have missed something. I soon learned that Frats were "the way to go" if you wanted fun, thrills, and more beer than an Irish Sumo Wrestler could drink in a lifetime. Fraternities! What a concept! Where else

can a college lad find entertainment, food, a roof over your head, members of the opposite sex, and, most importantly, brotherhood centrally located for your benefit? I went on the first night of IFC tours with great expectations.

They weren't to let me down. There are different frats for different personalities. There was one I liked, one I disliked, one I thought was great, and one that was so-so. They all had two things in common though. They all contained a bunch of guys that liked their bro's, their house, and their fraternity system. They all also had free beer. There's something about a cup of beer, when offered to you by a smiling face, that's hard to refuse. I got blitzed. I missed, to my regret, the next two tours. After all, I reasoned, rush is for the whole term, and you can't lose consciousness every night of the week. I was hoping to meet an upperclassman who would invite me to his frat, anyway.

Somehow that wasn't very good logic. Sure, I met lots of upperclassmen. Remarkably, none of them joined a frat; they all were apartment renters or commuters. Fine, I'll meet all the guys anyway at the parties. Nope, wrong again. When I went to the parties I always felt very out of place without a cold frosty one in my hand, or some other weird mixture of ethanol and soda water. Since there were three or four parties I could choose from, I spent only a half hour at each of them. Then I

(continued on page 7)

Newspeak

(USPS 535-480)

The student newspaper of Worcester Polytechnic Institute
Box 2472 WPI, Worcester, Massachusetts 01609
Phone (617) 793-5464

features editor Tom Nicolosi	editor-in chief Jim Diemer	faculty advisor Kent Ljungquist
news editor Jim Dyer	business manager Mary Montville	advertising manager Mike Wong
photography editor John Mar	circulation manager Mike Balinskas	associate editors Debbie Allen Steve Knopping Joan Marler Eric Schade
sports editor Joe Grimes Lisa Longwell	graphics editor Scott Daniels	

STAFF

Mike Beach	Annamaria Diaz	Maureen Sexton
Rich Bibbins	Greg Doerschler	Ingrid Slembek
Mark Cohen	Shauna Donovan	Bob Sweeney
Greg Dearborn	Dave Drab	Bob Thivierge
Duke Dalton	Doug Fraher	Dave Wall
John Delaney	Rich Goldberg	Skip Williams
Bob DeMattia	Maureen O'Brien	Resa Williamson
Steve Demers	Tim Roesch	Chris Wraight
	Kevin Santry	

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 is a member of the Columbia Scholastic Press Association. Newspeak subscribes to Collegiate Press Service, Collegiate Headlines, and National On-Campus Reports. Editorial and business offices are located in Room 01, Sanford Riley Hall at WPI. Copy deadline is noon of the Saturday preceding publication. Typesetting done by Laplante Associates. Printing done by Enterprise Printing and Graphics Company. Second class postage paid at Worcester, Massachusetts. Subscription rate is \$6.50 per school year, single copies 50 cents within the continental United States. Make all checks payable to WPI Newspeak.

COMMENTARY

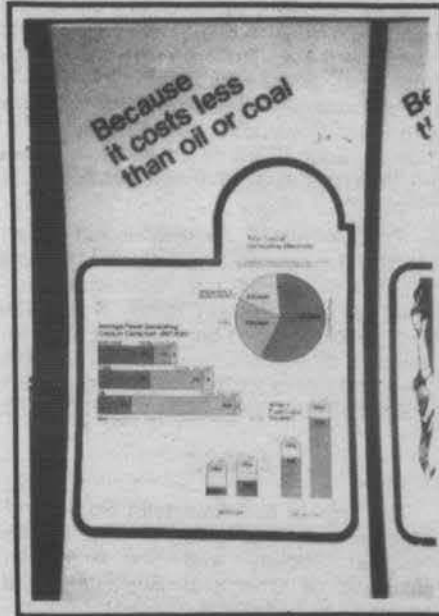
NE 1010: Misleading the Public

by Jim Dyer
News editor

The bus was packed, as was the van, so the no-nukes contingency (all three of us) were forced to take the Mercedes to Seabrook. The drive up was uneventful, and not worth writing about. Of course, what nuclear power plant tour would be complete without a stop at McDonalds?

education . . . and at no cost, thanks to the generous customers of the Public Service Company of New Hampshire.

The exhibits were slick, shiny and colorful plastic devices with enough flashing lights to justify building a nuclear power plant. Educatees start with a simulated elevator ride to the simulated ocean water cooling system tunnel. This leads them to the Environ-



— Jim Dyer.

gratulated ("very good, this is often misunderstood...").

The tour was led first to these tests, then to the displays. It would later be led back out, into an auditorium, back out (the movie was broken) into the hallway (where they told everybody who didn't see the movie to go into the auditorium), out to the bus, and — once the bus driver was located — on a tour of the site. The bus returned to the Education Center, where the tour was led into the auditorium, then to the simulated elevator ride, back to the displays.

I suppose I could interject a non sequitur here about the incompetency of certain industry employees (especially in response to emergency situations), but I'm above all that.

Instead, I'll examine the various topics of education that were offered.

One particularly eye-catching display was a lighted placard depicting a sinister Arab cutting off an oil valve, juxtaposed with an all-American Statue of Liberty raising the torch of liberty to illuminate the number 40. This number represents the number of years that power plants are licensed to operate.

Nuclear power plants can run about 30 years before they must be dismantled; otherwise, radioactivity will saturate the structure. The industry

(continued on page 12)

TANGENTS

The inevitable Golden Arches had barely sunk behind the horizon when the Mercedes pulled into the Public Service Company of New Hampshire's prize boondoggle: Seabrook Station.

(Yes, that's the electric company's name: Public Service Company of New Hampshire. One wonders why David Stockman hasn't tried to eliminate them.)

The tour itself was typical, as far as tours go, but it was the Education Center that stole the show. This was a collection of exhibits and literature promising to tell all "why Seabrook Station is being built and how it will work."

In an era where education funds are being cut left and right (mostly right), here anyone could be given quite an

mental Hall, a review of marine life in the salt marsh of Hampton Harbor; life that would have been much disturbed by the original proposed cooling system. From this we get to a lighted model of the completed station, two wall-sized displays of nuclear innards that combined to light up a little plastic city, a model of steel-reinforced-concrete, a comparison of radiation emitting from various household items and two walls explaining why Seabrook Station is so desperately needed.

At the end of the displays are a number of terminals, where one could take a test to measure one's "education." If you answer with what the machine calls the "right" answer, you'll be con-

Sociology + Nuclear Technology = ?

by Tim Roesch
Newspeak staff

Are you interested in an off-beat IQP? Well, read carefully.

Here is the problem to be solved: What are the psychological effects of

tors. Plus, as an added benefit, Newspeak can cover the whole thing and become a nationally recognized paper and ... Anyway the effects should be interesting to observe. A subject that studies man right next to a subject that

The WPI Germ

by David Wall
Newspeak staff

College, like many things in this life, is not an absolute. There is no set of things one should feel at college. It is not an "either you love it or you hate it" kind of deal. The college life in general is a sort of disease, which those who participate in it catch to varying degrees.

Here at WPI, life has many different

From here, the symptoms become more specialized. One of the best-known and most easily recognized is "gweep fever." In serious cases, this can lead to a complete breakdown, eliminating all things human from the unfortunate victim. They become incapable of anything except tapping keys on a terminal. Sleep, food, study, all of this becomes meaningless. And so they

TRUTH BEHIND THE WORDS

mixing nuclear technology and sociology?

You see, it seems that Plant Services was thinking of moving the Sociology Department to Washburn. What's a Washburn? Well it's the hall where the nuclear reactor, all one kilowatt of it, is stored.

Now sociology students interested in practicing their protest strategy involving other area nuclear reactors can just go next door. I'm sure that the WPI Campus Police would just love dressing up as National Guardsmen and we can get some graduate students to pretend they are the nuclear power plant opera-

can destroy man. Sort of like keeping matter and anti-matter right next to each other in plastic garbage bags.

There can be many results when these two disciplines meet. First, we can have the only sociology professors that glow in the dark. Second, we may get some nuclear power plant operators that realize that nuclear waste and meltdowns can have adverse reactions on the human body. Anyway, at least the sociology department can prove the theory of nuclear families.

So, about this IQP. Research material can't be hard to find. It can't cost that

(continued on page 9)

OUT OF TURN

facets, and none of them effect the student to the same degree. This conglomeration I have called the "WPI germ". It is a nefarious thing, to which no one here is immune. Like that line from the song, one way, or another, it's gonna getcha...

First symptoms of having caught the WPI disease emerge in one's social habits. The most ardent anti-socialites can be found double-fisting it, while talking to three girls at the same time. The more mellow among us, who enjoy good booze and good company will suddenly be associating with punk-rockers and heavy metal freaks. People who were ardent partiers when they got here are recognized by the blissful look on their faces.

In spite of all that, the deadly virus spreads quickly to a completely opposite part of the personality, the scholarly part. Some people succumb here, deciding that life is too much book cracking here, and they disappear like ships in a fog. Those who continue to resist the sickness at this stage find that life is slightly surreal. Four hours of sleep is suddenly a treasure to be clutched like a sixty-carat diamond. Homework is suddenly categorized into "get it done," "Maybe later," "This can wait" and the insidious "never mind, the professor doesn't collect this." And time, not only for sleep but for anything, suddenly becomes an elusive thing. Those bitten by the WPI bug find that there are not enough hours in the day, then not enough days in the week, then not enough weeks in the term.

Then, the sickness takes on a definite physiological shape. It assaults one of the most vulnerable of human systems — the digestive system. It is a weird phenomenon, where one likes the food less and less, and consequently eats less of it. Yet, mysteriously, he or she gains weight, in the worst cases collecting pounds almost as fast as homework. People can be frightened into eating still less. And they gain more, eat less, gain more, eat less...

enter a sort of catatonia, where the world is expressed only in terms of FORTRAN, BASIC, and Hyperspace.

Such extreme cases of any of the above symptoms cannot be helped. But if they all come together, a strange and wondrous transformation occurs. None of these seemingly grisly things is so grisly anymore. Life suddenly falls into the same pleasant kind of familiar order that was present back in high school, but with an added enjoyment that one won't find anywhere but at college. And with all the things to enjoy at WPI, one can be in a state of bliss even on a Tuesday afternoon. With a Physics exam on the way, even. Or after an all-nighter. At any time.

So, if you haven't caught the WPI germ yet, my sympathies. Those of us already infected have mastered the college life (sort of) while you sit there in a forlorn, homesick panic. If you want to escape that, just go to a frat party, or join a club, or just find some people to hang out with. The only danger spot is WACCC, late at night. You never know what you might find there.



...Lost in the rush

(continued from page 6)

staggered back to my room, so I could fall unconscious in peace.

Then a new element added complexity to my sad little scenario. I realized I had grades to think about. Rush events, like casino nights, that took place in the middle of the week and had some other activity beside mass consumption, had to be forsaken. Too bad, thought I, I bet I really could have met people there. If I wanted any sort of social life with individuals, instead of groups, I had to skip another night of Frat partying.

Meanwhile, my roommate had to remove the shingle on our door, because so many frats had scribbled invitations on it for hot dogs and beer. When I saw one of the brothers of my targeted house around, I tried to drop a hint or two. He smiled, told me when the next open party was, then bumped into one of his friends. With a nod and a word of thanks I left the conversing pair, chatting merrily about partial herzold gain in closed Frunnistanz systems.

None of my closest frosh friends were overly impressed with the frats, or at least the ones I liked. At the beginning of this whole mess most of the presidents or rush chairmen made open invitations

to come down "any time" to check out the house, or "drop in" for dinner. Who wants to do that alone, without a slightly more formal invitation? It looks like my last resort, and invitations for my roommate to frolick his life away seep over to my side of our brand new message sheet. Since I haven't gone to enough rush functions, my fault or not (I claim full responsibility) to become friendly with anybody in the houses, I know I'm not going to get invited to any of the closed functions. Maybe I'll just hang it up. With all my new-found friends, I'm sure to find someone to go thirds or fourths on an apartment.

My concern now is for the reticent members of the Class of '86. Rush Chairmen, wake up!! There's scores of championship foosball players out there that, for some reason or another, have a wrong impression of you. These are people I know that haven't gone to even one party. I'm sure if they knew all the good times to be found they'd give it a shot. I know you're doing your best to find a bunch of new guys you'll call "brother" in a few months, guys that will keep up the house. But don't you think you're missing a few of us who don't party for a living?

CAMPUS CAPSULES

Newell Lecture Hall

The Atwater Kent lecture hall has been named the Newell Lecture Hall as a tribute to Professor Emeritus Hobart H. Newell, '18, who served on the WPI electrical engineering faculty from 1921 to 1965 and since his retirement has served as a consultant to the Alden Research Laboratories. Prof. Newell was a renowned consultant to radio stations throughout his professional career. He is credited with developing the EE Department's program in electronics.

Movie Location Changed

"The Reel Thing" movie series sponsored by the WPI Social Committee will be shown in Alden Memorial for the remainder of the season. Upcoming films for October are "Private Benjamin" on the 11th; and "Raging Bull" on the 27th. Showtimes are 7:30 and 9:45 p.m. Admission is \$1 with WPI ID.

Forum presents 'Shadows'

The Forum will present "Ethics and Options for a Threatened Planet," the fifth in the eleven-part series, **Shadows of the Nuclear Age**. The presentation, which will consist of a half-hour recording from the **Shadows** radio program and discussion, will take place Monday, Oct. 12th in the Project Center Classroom. The topic of the recording and discussion is the proliferation of nuclear weapons.

Comp Review

For underclassmen preparing for the comp, a new program is available. The Self-Help Educational Assistance Program (SHEAP) is designed for underclassmen needing to relearn former course work for the comp and those having trouble getting to the comp. It meets every Monday and Thursday in GH 304 and GH 311 from 7 to 9 p.m. SHEAP is sponsored by the African-American Cultural Society.

Cinematex

Cinematex Series begins this evening with "Kagemusha," grand prize winner at the 1980 Cannes Film Festival. This Japanese epic drama of feudal conflict in the 16th century centers on a powerful warlord and a thief who is his look-alike. The movie is free and open to the public; it will be shown at 7:30 in Alden Hall.

ARL Tour offered by ASCE

On October 7th, ASCE will sponsor a tour of Alden Research Lab. For those who do not know, ARL is a hydraulic research facility, owned and operated by WPI. The tour will begin at 1 p.m. and last approximately one hour. Those interested should see the sign-up sheet posted on the ASCE Bulletin Board. Details have been mailed.

SFPE registration

The Society of Fire Protection Engineers will have an information/sign-up desk set up in Daniels Hall, Wednesday, October 7th from 11 a.m. to 1 p.m. Students from all disciplines are invited to join. Information regarding SFPE activities for the year and fire protection engineering, in general, will be available.

Also, on Tuesday, October 13th SFPE will hold its first meeting. A movie about the MGM Grand Hotel will be shown; a discussion will follow, led by two alumni. Complete details will be mailed to all students.



college telephone

Concert

A combined concert by the WPI Stage Band and the WPI Brass Choir will be held in the Wedge on Wednesday, October 7 at 8 p.m. The stage band will perform big band jazz and jazz/rock works, while the brass choir will play from a more classically oriented repertoire. The groups also will perform several selections together. The concert is free and open to the public.

Young Adult Fellowship

The College & Young Adults Fellowship will meet on Sunday, Oct. 11th from 11:15 a.m. to 2:00 p.m. (following Worship) at the Central Church, 6 Institute Rd., Worcester. This meeting will include a movie, discussion, FREE lunch, and fun! For more information, call Mark Ferrin at the Central Church, 755-4978.

ASME

The trio of the American Society of Mechanical Engineers, The American Nuclear Society, and The American Institute of Chemical Engineers will sponsor a Technical Presentation entitled "World Energy Outlook and Energy Alternatives: 1980-2000". The speaker will be Mr. George Lewis, an engineer with the Exxon Corporation. The lecture will be given on October 12 at 7:00 p.m. in Kinnicutt Hall. Refreshments will be served. All are encouraged to attend.

ASEE fall meeting

The Annual Fall Meeting of the New England Section of the American Society for Engineering Education (ASEE) will be held at WPI on Friday and Saturday, October 9-10. All full-time Faculty Members are invited to register. Registration fees and the Saturday Noon Luncheon will be paid for by WPI. The Banquet speaker is Tracy Kidder, a journalist whose book, "The Soul of a New Machine," has been widely heralded in the press. Tickets for the Banquet are \$9.50.

For reservations call Melanie Lajole (Ext. 5591) or W. Eggimann (Ext. 5352).

Alden Professor

Robert E. Wagner, professor of chemical engineering, has been named the fourth recipient of the George I. Alden Chair in Engineering. The three-year appointment recognizes Prof. Wagner's outstanding teaching in his field of engineering.

Fall Graduation

Seventy-two degrees will be conferred at commencement exercises next Monday afternoon at two o'clock in Alden Memorial. The graduation address will be given by Jack McCabe, '68, executive vice president of Carl Gordon Industries, Inc. Worcester, and immediate past president of the WPI Alumni Association.

Resumes due

Resumes from seniors and graduate students are now being accepted for the third annual SWE Resume Booklet. Deadline for all one-page resumes to be included in this publication is Friday, October 16th. Details have been mailed. For further information, contact A. Autio, Box 1320.

100 MALE CIGARETTE SMOKERS WANTED

Earn \$80.00 for participation in a National Institute of Health supported research study of Biological and Psychological Correlates. The men selected must be between the ages of 18-23 years. If you are selected, completion of the first Phase will pay \$40.00. Phase I requires three, one hour appointments. Phase II requires a half-day, from 8:30 AM to 12:30 PM, and will pay an additional \$40.00. Cigarette smoking will be required during testing sessions.

For additional information, please call 757-6934 any weekday afternoon.

'So Fine' only so-so

by Skip Williams
Newspeak staff

"So Fine" is just a so-so comedy that tries so hard to be funny that it falls flat on its face. It attempts to combine the elements of screwball comedy and clever satire but fails completely. That's not to say there aren't any good, or even funny, moments in this film. They're just too few and far between.

The story follows how a college professor, played by Ryan O'Neal, creates a line of designer jeans by a series of bizarre coincidences. Jack Warden plays his father, the owner of a dress company that's hitting the skids, who owes 1.5 million dollars to gangster Richard Kiel. One night, O'Neal meets and falls in love with Kiel's wife, Marangala Melato. He goes home with her and somehow winds up in bed with her and

Kiel. The next morning O'Neal is sent into the streets of New York wearing Melato's designer jeans, sweater, and pink fuzzy slippers, for the night before she burned his clothes. Well, then O'Neal bends over and the seat of the pants splits, exposing his posterior. Hence, a line of designer jeans is born. Simple story, right?

This film, written and directed by Andrew Bergman, is poorly paced and poorly written. The script never clearly defines what story it wants to tell. It has too many subplots that makes the story a bit more confusing than it should be.

"So Fine" could have been a brilliant satire on the fashion world, especially the world of designer jeans. Or, it could have been a satirical look at life in a small community college. Or it at least could have been a half-way decent screwball comedy. But it's none of these, instead it's a film that has only a few laughs that should have the executives at Warner Bros. blushing at their bare-assed comedy.

Brass Choir to open season

by Paul Cottle

The WPI Brass Choir will open its second season under Director Douglas Weeks when it performs with the WPI Stage Band in the Wedge on Wednesday, October 7 at 8:00 p.m. The brass will perform the first segment of the concert. Ranging from the seventeenth to the twentieth centuries, the brass program will include "Two Intradras" by Melchior Franek, a short intrada by Johann Pezel, "Sonate" from **Die Bankelsangerlieder** (anonymous), the "Introduction to Act III" from **Die Meistersinger** by Richard Wagner, and "Divertimento" by Samuel Adler.

The Brass Choir returns this year with very few personnel changes from last year, and may expand its range of expression and sharpen its precision. Off-campus engagements for the choir include a concert at Mendon Unitarian Church in Mendon, Mass. and a live radio show on WCUW in November.

...Seabrook

(continued from page 2)

walls are 15 inches thick and the foundation is nine feet thick.

The group was also taken by a portion of the cooling system. Here, an incredibly deep hole had been created through solid bedrock.

After the bus tour was over, the group was allowed into the observation room of the plant simulator. The simulator is an exact duplicate of the actual plant control room and is used to train the operators.

Signs of amazement were evident from many members of the group. This was especially true when the tour passed by the containment building and the large hole in the bedrock. ASME members interviewed after the trip were generally impressed with the number of safety precautions at the plant. Many also felt that their time had been well spent.

THE REEL THING

presents:

"PRIVATE BENJAMIN"



OCT. 11, SUNDAY
7:30 and 9:45
IN ALDEN HALL

ADMISSION: \$1.00 WITH WPI IDS
\$1.50 WITHOUT

SOCOM PREVIEWS

This week's happenings

Spectrum Fine Arts Series

On Monday, October 12 the WPI Spectrum Fine Arts Series begins its 1981-82 program with David Syrotiak's National Marionette Theatre. With 28 years of professional experience David Syrotiak operates what is recognized as one of the world's finest Marionette Theatres touring today. The acclaimed master puppeteer performs a series of shows, set to music, ranging from the comic "Child Ballerina" to the nightmarish mime trapped in the mirror of "Reflections."

Mr. Syrotiak will be performing in Alden Hall on Monday, October 12th at 8:00 p.m.



National Marionette Theater

They also play tunes by Journey, Rush, Van Halen, Foreigner, Boston, Kansas, and others. Come see Jericho rocking in the pub Saturday at 8:30 p.m.

Cinamatech

This year's Cinamatech Film Series



Jericho

begins with the showing of "Kagemusha", an epic drama of feudal conflict in 16th century Japan. The movie centers around a condemned thief who is saved from the gallows because of his resemblance to a great warrior. The warrior, dying from wounds received in battle, orders his clan to keep his death a



Kagemusha

secret for 3 years fearing that news of his demise would bring about his family's downfall. The thief replaces the warrior and attempts to transform himself into the leader who commanded 25,000 soldiers. "Kagemusha — The Shadow Warrior" can be seen in Alden Hall on Tuesday, October 6 at 7:30 p.m.

Pub Entertainment

Jericho will perform in the pub on Saturday, October 10. The band has played the major clubs in the area as well as tours in Connecticut and Florida. Those who have seen the band remember the group for their Led Zeppelin show with outstanding special effects.

...AK rededication

WPI who helped make the renovations possible.

Dr. Edmund T. Cranch, President, emphasized the importance of maintaining a competent faculty by announcing that the large lecture hall in the Atwater Kent building has been named the Newell Lecture Hall after Professor emeritus Hobart H. Newell, '18, a member of the WPI Electrical Engineering Department faculty from 1921-1965. Since 1965, Newell has served as a consultant to the Alden Research Lab-

oratories. He is credited with initiating and developing WPI's program of electronics.

Captain Joseph P. Kerwin, NASA Astronaut, delivered the rededication address. Captain Kerwin earned his Bachelor Degree in philosophy at Holy Cross in 1953, after which he studied medicine and received his M.D. degree from Northwestern University in 1957. He attended the U.S. Navy School of Medicine at Pensacola, Florida and earned his wings with the Navy in 1962.

Kerwin was selected in 1965 as a scientist-astronaut for NASA and was aboard the Skylab II mission in 1973, spending 28 days in space.

Captain Kerwin feels that we at WPI are "living in the real world," referring to the educational system here. He remarked that "it is obviously going to produce just exactly the kind of people that NASA needs and that the other industries and government agencies out there need."

During a question and answer session with Captain Kerwin following his presentation, he responded to a number of questions, most concerning his stay in Skylab and his feelings and sensations

in space. Perhaps his most interesting response came when he was asked if one gets used to being weightless. In his response, Kerwin remarked that about three weeks into the flight he tried to remember what it was like climbing stairs and fighting gravity. Momentarily, he said, his body wouldn't respond. "You can almost fantasize that maybe the human race evolved up there and somehow fell."

The ceremony ended with Rev. Schoonmaker delivering the Benediction. Those who attended left with a sense of pride, proud to be associated with an institution so highly regarded by so many.

THE DAY/NITE SUPERSTORE

147 Highland St.

For low prices on fresh meats, deli, produce, dairy and Grocery - 24 hours - 7 days a week -

THINK THE DAY/NITE SUPERSTORE

SPECIAL DAY/NITE COUPON
Day/Nites famous mixed
COLD CUT GRINDER

(Good thru October 10th)
Limit 1 per customer

Shop the Lower Level!

The Underground

Our Prices Are Irregular - Our Quality Isn't!

CHECK OUT THE BIG SAVINGS ON FALL FASHIONS
— NEW ARRIVALS DAILY —

Come in and see our new tops and sweaters

Suggested retail \$30-\$40.

Our Price \$11.90 to \$19.00

... society and nuclear

(continued from page 7)

much (just your life if either the nuclear reactor of the professor teaching a class at that time overloads).

In fact, you can use this article as reference material. Here are some facts that may come in handy.

Maxwells' Coefficient — The amount of radiation the average human body can take before it glows blue.

Croms' Law — The amount of taunting and bottle throwing a National Guardsman will accept before he or she goes berserk and opens up with his or her automatic weapon.

Koenigs' Property — The amount of experience any average nuclear technician has had running an actual nuclear power plant and how this effects the time it takes the before said plant begins meltdown.

The Constructive Theorems —

1. The ratio of cement to water that the constructor used to build the nuclear reactor of your choice.

2. How long has the aforementioned constructors' license been out of date and its relation to the time he had to build the aforementioned nuclear reactor of choice.

3. The strength of the steel, concrete, paper, formica, plaster and or bubble gum that the constructor used multiplied the amount of years the aforementioned nuclear reactor of your choice has to remain standing then divided by the added results of both 1. and 2. above.

Exchange for technical students

The International Association for the Exchange of Students for Technical Experience announces its training program for 1981.

Eligibility: If you are: currently enrolled in good standing at a four year college or university; at least a sophomore but not yet finished with your Doctorate; majoring in any of the sciences, engineering, mathematics, architecture or agriculture — you are eligible to be an IAESTE trainee.

Traineeship: Most placements are for 8-12 weeks during the summer, although some may be available for longer periods (up to one year) and at different times of the year. Placement may be in a research laboratory, design office, production department or field location, depending on the nature of your field, background and interests.

Application: To apply, simply obtain a form from IAESTE/U.S., Inc., 217 American City Building, Columbia, Maryland 21044, complete it, secure academic endorsement and submit it before Dec-

ember 15th, together with your non-refundable membership/application fee of \$50. (If you withdraw at any time, you forfeit the entire fee.)

Cost: You will be paid a "Maintenance allowance" adequate to cover your living expenses while in training. In addition to the \$50 application fee, you may expect to have expenses of \$700-900 for a typical 8-12 week summer assignment in Europe. This includes transportation, free-time travel, insurance and incidental expenses such as passport fees, souvenirs, etc. If you wish to train outside of Western Europe, you should expect higher expenses due to greater travel cost.

Travel: You will be responsible for your own travel (including cost) and for making sure you arrive at the place of training on the date you have specified, and will remain for the entire period to which you have agreed.

A meeting on the program will be held on Wednesday, October 14 at 4:00 p.m. in Higgins 109.

...Mulqueen

(continued from page 2)

students to become involved in other important activities.

Maggie realizes that many students are not aware of the counseling services in the back of Washburn and feels it is too bad students hold off on coming to see a counselor. One way she is combating this problem is by making herself known around campus so people will feel she is a friend. Maggie as well as the other counselors see students for a wide variety of reasons including career counseling and academic and personal problems. "College is a difficult time of great transition," says Maggie, realizing the tough times one goes through during a college experience. Sometimes just talking with someone will help. Maggie stresses the confidentiality of each visit. There are no records kept of visits and no one on campus can find out who comes in. The counseling staff has no access to a student's transcript or academic records. She also wants

everyone to realize it is not a sign of weakness to see a counselor. Think of it as a learning experience where the self is the learning matter.

Presently, Maggie is running two successful workshops two nights a week. This is a new venture at WPI. One is on time-management, the other is on interpersonal relationships. She is pleased with the responsiveness of the students and is excited with the outcome. Maggie likes doing group work because she feels it is a method of proving to people that they are not alone with their problems. Over intersession, Maggie will be holding another course. She is looking forward to this because it will be a chance to get people talking — which she loves to do. The course is called, "Psychology of Women" and is intended to make people think through the stereotypes of "women's work" and "men's work" and what it means to be a woman and a man.

classifieds

LONDON EXCHANGE: Interested in going to London Terms A and B '82? So am I! Maybe we could plan a project (IQP) together. Contact Jennifer, Box 2024.

TO THE ROOMMATE of the girl on D3 with the pink amorphous blobs on her shoelaces — what kind of music do you like? — Curious

BUBBA, YOU KNEW I WOULD, so I have. Happy Birthday, Quiet Anniversary. AML Chubba (LMA)

WHEN WAS THE LAST TIME you danced with a woman who knew a language other than Fortran? — The Men's Chorus

FIRST DOUBLE: The score is LOVE. My heart's in your court — No net can keep me from you. You're my racquet, partner. Our game will never be rained out. Love & Kisses, JM for JM

FOR SALE: Kenwood KA-9100 DC integrated amplifier, rated at 90 watts per channel with .05% THD. Asking \$300. Call Chris 752-8193 or write Box 1854.

FOR SALE: OLIN COMP IV SKIS, 175 cm, with Tyrolia 360D bindings with ski brake. Both one year old, asking \$325. Call Chris 752-8193, or write Box 1854.

S—FACE: Your classified melted! — the censor

JOIN PAPA FINN'S YOGA course. Yes you too can be twisted into shapes you would never thought possible!

HAPPY BIRTHDAY Ma from all on D-3.

ART, will you MARRY me, please? Signed, future Mrs. Garfunkel.

J-BIAN MADE IT TO NYC and back despite a SAPPY driver. Art was it worth it?

BUT ADMIRAL, a flamethrower at the Special Olympics? Why me? Signed Drunk 'n Donuts.

C'MON FOLKS, what are you waiting for? There's still some furniture left in F18! Better get all of it before they figure out what's going on!

SURPLUS JEEPS, CARS and TRUCKS available. Many sell under \$200! Call 312-742-1143 Ext. 5883 for information on how to purchase.

SENIORS — DON'T FORGET your appointment for senior portraits! Photos taken in Peddler Office (bottom of Riley Hall). Sitting fee of \$5.25.

TO MY HONEY: No matter what happens, there will always be love for you in my heart. Your Girlfriend.

RIDES PUPPIES UNTIL THEY'RE DEAD??

WHAT'S HORIZONTAL AND MOANS A LOT? The quarantined occupants of Hadwen Rd.

APARTMENT FOR RENT: 3-4 Bedrooms, 3 minute walk to campus. Call 835-6312 mornings 8:00 - 9:00 a.m., evenings 7:00 - 9:00 p.m.

WELCOME FRESHMEN FROM HCHS. Mr. Batz didn't tell me you were coming! CC'84

...Kerwin on space

(continued from page 1)

and nineties. While fielding questions after his address Kerwin remarked that, "We have justified building a railroad into space, and now the next step is having a station at the other end." According to Kerwin Skylab was a "prototype space station." He said that, "Having a successful space transportation system, NASA could build a 'space operations center' beginning in 1988." According to Kerwin the main function of the proposed space station would be to support shuttle operations. Because of limitations in the payload capacity of the shuttle many satellites that would need high earth orbits would have to be launched in two components. The operations center would be used to assemble the components and then send them into a higher orbit. In addition the operations center could also be used to repair and refurbish satellites. Said Kerwin, "There is no reason why within 10 to 20 years from now our children can't go into orbit as tourists." One big hitch with the plan at this time is the price tag of between 5.5 and 6 billion dollars. Said Kerwin, "The initial go ahead has to come from Congress and this is not a good economic climate for go aheads." Some of the projects that are envisioned for the space operations center are the construction of large communications platforms, solar power satellites, and the launching of interplanetary spacecraft.

Essential to the construction of a permanent outpost in orbit is the understanding of the physiological, psychological, and social effects of life in zero gravity. Kerwin, being an MD, was enthusiastic in his elaborations on the "relatively profound" physical changes that occur in the human body during long space flights. According to Kerwin changes occur in the blood forming organs, the skeletal system, and the muscles. "You have to ask yourself the question, what if we raised generations of animals in space?" Said Kerwin, "The changes that we have seen so far are so profound because they are taking place in adult, mature animals — namely humans. In humans we notice a loss of calcium in the bones unless we force ourselves to exercise. If an animal were born in a weightless environment I believe that it would die if it were brought back to earth. It is possible that the bones would not even calcify at all." Said Kerwin, "There would also be changes in the nervous system. Reflexes to counteract gravity would probably never get programmed. The animal would have adapted or evolved to weightlessness."

On his own flight Kerwin was weightless for a total of 28 days while aboard the Skylab. During the question and answer session following his speech in Alden, Kerwin asserted that after a few days weightlessness became an almost natural situation for him and the other members of the crew. "The physical situation becomes so natural that you can't remember the sensation of gravity," he said. "You get used to the fact

that the blood rushes to the head. You have no sense of up or down outside of your own body."

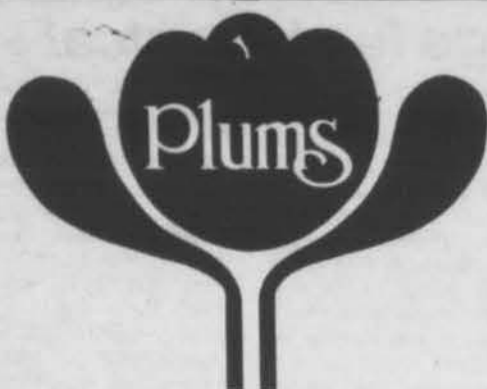
One aspect of the space program that has come to recent attention lately is the issue of the military's use of space and particularly of the shuttle. Said Kerwin, "The shuttle is not going to be used by NASA in any warlike fashion, whatsoever." He said that presently the military uses space mainly for communications and reconnaissance. "Our presence in space is important to the national security," he said. "I suspect that the U.S. is investigating how to protect its satellite capabilities," he said. "The Russians have already space tested killer satellites. If you notice, a lot of talk about American weapons in space comes from Moscow. The shuttle is a civilian vehicle. It is rented to the Air Force by NASA. I would rather have it that way than the other way around."

Kerwin is also an experienced pilot who has logged almost 4000 hours in the air. When asked if he could compare the sensations of space flight to flight in conventional jet aircraft Kerwin stated that, "The only part of flying in space that is anything like flying an airplane is the first 10 minutes and the last 45." He said, "During the launch there is a lot of noise and vibration. The acceleration builds up fast and then it just keeps building and building until you think that it will never stop. But then it stops suddenly, and you're in orbit." He said that the launch was done automatically, but the crew was prepared to fly the Saturn 1B into orbit manually. "We had done it successfully on the simulator," he said.

As the pure missile is different from the airplane the shuttle is different from both. Said Kerwin, "The shuttle operates on a hybrid control system, consisting of both control surfaces and attitude control rockets." When the pilot moves the control stick he puts the spacecraft into the configuration he wants, but only the flight computers are quick enough to blend the right amount of control surface action with reaction control from the rockets. In the wispy reaches of the upper atmosphere the control surfaces alone would be ineffective.

The subjects that Kerwin described would only a few years ago have been thought of as belonging to the realm of fantasy. Today, however, the presence of Kerwin and others like him who have lived and worked in the environment of weightlessness and who have ridden the rockets into space attest to the fact that the human race is approaching a new era in the pushing back of its physical and intellectual barriers. In Atwater Kent's rededication a clear progression could be seen leading from the past into the present and from the present into the future. Kerwin remarked during his speech that the kind of people that NASA would be looking for in the future to fly in space would be engineers — engineers of the type and caliber that are being produced at this institution yearly.

AT
WORC.
CENTER



799-0717

PRESENTS

COMEDY CONNECTION

"live stand-up comedy from Boston"

Every Friday & Saturday Night at 10:30 P.M.

FRIDAY NITE

IS

COLLEGE NITE

Only \$1.00 admission with College I.D.

(Must be 20 years or older)

"THE ONLY COMEDY SHOW IN TOWN"



SENIORS

Don't forget your
senior portraits!

Peddler Office
(bottom of Riley)

Bring \$5.25
sitting fee

WHAT'S HAPPENING

Tuesday, October 6

Varsity Field Hockey vs. Tufts, 4:15 p.m.
Cinemathech Film Series presents "Kagemusha," Alden Hall, 7:30 p.m.

Wednesday, October 7

Varsity Soccer vs. Assumption, 3:00 p.m.
Women's Tennis Vs. Suffolk, 3:30 p.m.
Joint concert, Stage Band and Brass Choir, Wedge, 8:00 p.m.

Thursday, October 8

Women's Tennis vs. Worcester State, 3:00 p.m.
Varsity Field Hockey vs. Anna Maria, 4:30 p.m.
Coffeeshouse Entertainment featuring "The Juggernaut String Band," Wedge, 9:00 p.m.

Saturday, October 10

Varsity Soccer vs. Holy Cross, 11:00 a.m.
Women's Volleyball vs. Assumption and Wheaton, 11:00 a.m.

Varsity Cross Country vs. Holy Cross, 12:00 noon.
Pub Entertainment featuring "Jericho," 8:30 p.m.

Sunday, October 11

Sunday Mass, Wedge, 11:00 a.m.
The Reel Thing presents "Private Benjamin," Harrington Auditorium 7:30 and 9:45 p.m., Admission \$1.00.

Monday, October 12

Fall Graduation, Alden Hall.
Spectrum Fine Arts presents David Syrotiak's "National Marionette Theater," Alden Hall, 8:00 p.m.

Tuesday, October 13

Cinemathech Film Series presents "The Life and Times of Rosie the Riveter" and "Agree," Alden Hall, 7:30 p.m.

...misleading the public

(continued from page 7)

decided to combine the best of both worlds and told everyone that the plants would work from 30 to 40 years. Apparently, the educators at Seabrook Station have decided that the 30 year figure has outlived its usefulness.

In the lobby was a pamphlet entitled, **What do you do with a Nuclear Plant after 40 years?** One of the options listed inside was, incredibly, "seek a new operating license from the NRC so that the nuclear plant may continue to operate." Perhaps this option is designed to accommodate those plants that spent so much of their first 40 years not operating that they still have a couple years left over.

Another pamphlet had the irresistible title, **Plutonium in Perspective.** Plutonium is made in reactors during the

normal course of operations and often makes its way into nuclear weapons. In a section entitled, "Of benefit and risk," the pamphlet proudly proclaimed that in 35 years of experience with the substance, "there has never been known a fatality due to plutonium's toxicity nor a theft for unlawful weaponry." I find great comfort in knowing that, of the 400 lbs of plutonium now missing and unaccounted for, nobody knows how much of it has found its way into "unlawful weaponry."

The point is that the nuclear industry is investing a lot of their customers' money into the proliferation of bullshit. Granted, misinformation exists on both sides; but the fact remains that the nuclear industry can and does spend a much larger sum of money on such things as "Education" Centers.

And guess whose money they're using?

classifieds

HEY IHWIR (of Daniels Fame), Weather has been great lately. Must put a damper on your plans, huh? Signed, TGMMK

1 ROLL KODACOLOR II FILM found by commuter lockers in the Wedge. Contact Dan at Box 2543 if it is yours.

VOTE VIC! Victor Schubert for Freshman Class President.

HEY TGMMK, Are you planning to take up permanent residence? If so, I'm going to start charging rent. MOM

TO FORCE TEN from the pumkin patch (alias elfin commandoes), thanks for a mission accomplished. This classified will self destruct in 5 seconds. Sever St. Bakery

THANK YOU, MY ROOMMATES, for all of the support that you have given me. Friends help.

COME TO THE CITADEL at 137 Millbury St., Worcester. Wargames, miniatures, Dice, and D&D products. Sat., Oct. 10 enter the Monopoly tournament.

FOR SALE: TECHNICS SA 400 45 W/ch AM-FM Stereo receiver in mint condition, new in '79. \$185. Studio Design 2-way speakers, 1 pair. Sound very nice. \$55. 756-1036 in eves., Bruce.

HEY FIJI, Theta Chi, and Zeta Psi: How does it feel to get beat by a freshman team? Morgan 3rd Raiders 3-0.

BOSCO IS GOD
BOSCO REIGNS SUPREME
PLEASE BOW DOWN NOW!
RSVP KING BOSCO

KATHY — Where did you pick up the lint, under the table, in the closet or in a dark corner?

ELAINE — HAVE YOU READ ANY GOOD BOOKS LATELY??

The International Artists Series Presents...

THE CHIEFTAINS

The Undisputed Masters of Traditional IRISH MUSIC



“Dazzling. An unforgettable musical experience.” —LONDON TIMES

They'll lift you out of your seat. —NY TIMES

ONE PERFORMANCE ONLY

Sunday evening, Oct. 18 at 8 pm
MECHANICS HALL

Tickets: \$10, \$9, \$8 at Ben Franklin Bookstores, Mark Plante Ticket Agency.
For Mastercard & VISA call Intercharge (617) 721-1200. Mail orders to: International Artists Series, 22 Seneca Road, Winchester, MA 01890. Make checks payable to THE CHIEFTAINS.