Newspeak

The student newspaper of Worcester Polytechnic Institute

Volume 4, Number 12 Tuesday, May 11, 1976

Will succeed Dr. Silva July 1st

Dr. Keshavan named CE head

WPI NB) — Dr. Krishnaswamiengar Keshavan of 12 Leslie Road, has been named head of the Worcester Polytechnic Institute civil engineering department as of July 1, according to Vice President and Dean of Faculty Ray E. Bolz, He has been on the WPI faculty since 1967.

He succeeds Dr. Armand J. Silva who will be completing his term as head at the end of this academic year.

Dr. Keshavan is presently in Manila on a year's leave of absence from WPI while serving as Senior Advisor in Environmental Studies for Engineers at the University of the Philippines by UNESCO under the United Nations Environmental Program.

Dr. Keshavan also had a previous mission for UNESCO at the University of the Philippines.

He said the major thrust of his mission for the last year in the Philippines has been to initiate a project approach to educating engineers especially in the environmental engineering area along the lines of the WPI Plan.

While at WPI, he was engaged in a number of research projects and studies of water and water pollution problems in both the public and private sector, some of which stemmed from the discharge of heat or organic pollution in streams from the discharge of power plants, industries, or municipalities, resulting in oxygen depletion in the water.

Dr. Keshavan joined the WPI civil engineering faculty in 1967 as an associate professor and was promoted to professor of civil engineering in 1972.

He had previously been an associate professor for four years at the University of Maine. He has worked for the Public Works Department of New Delhi, India.

He received a bachelor of science degree at the University of Mysore and subsequently also a bachelor's degree in civil engineering there. He was awarded a master of science degree at Iowa State University and received his doctor of philosophy degree at Cornell University.

While doing postgraduate study, he also was a research laboratory assistant at Iowa, a research fellow at the University of Cincinnati and a teaching assistant at Cornell.

New CE head, Dr. Keshavan *WPI News Bureau Photo*

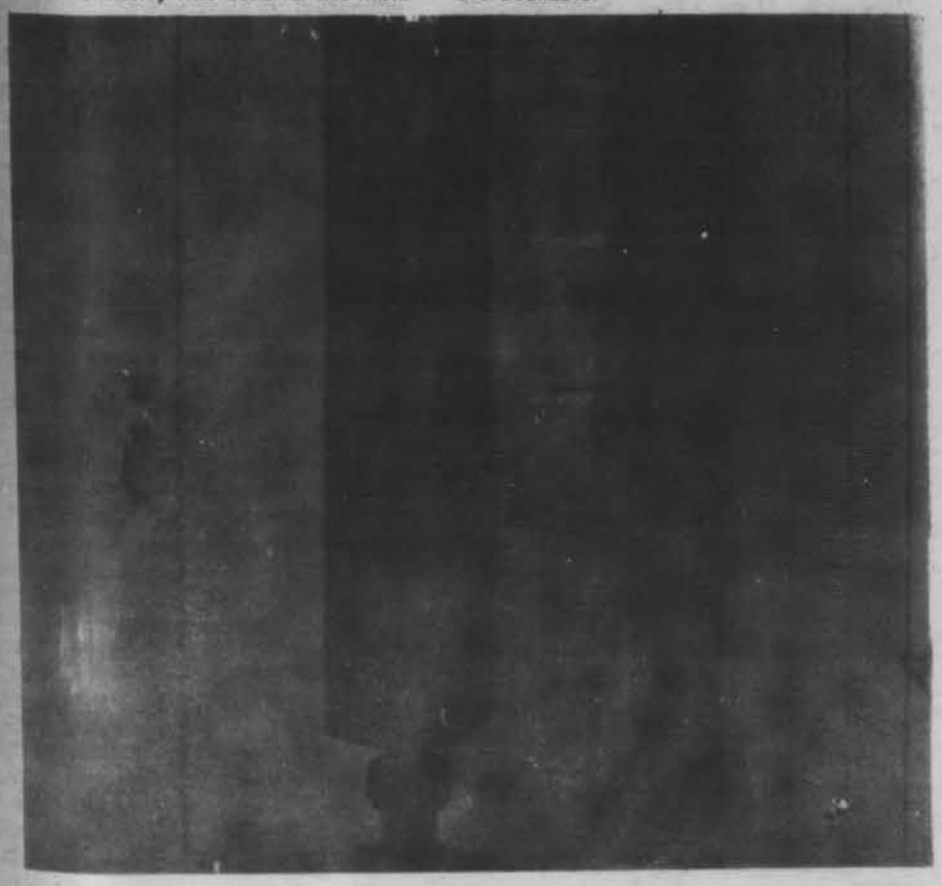
Showing signs of age

Boynton Hall unsafe

by Craig Vickery

Boynton Hall, the oldest building on campus, is finally showing its age. The 110 year old building, originally built for classroom use now houses the college administration, and it is the enormous amount of paperwork that has given Boynton a "shaky" reputation of late. The building was not designed to support such weight and is now overloaded by a factor of about ten. Twelve years ago the form of Harvey and Tracy inspected Boynton Hall and found structural problems. Jackposts were installed in the basement to shore up Boynton on a temporary basis and papers were moved to areas that could support the load, but the jackposts remain today and the papers have crept back. Money was available several times for the renovation of Boynton, but the problem was not serious then and the money was used for the more pressing problems of students and faculty (the construction of new dormitories, for example).

Recently Professor Carl Koontz of the Civil Engineering Dept. and a project group inspected Boynton Hall and found conditions worse than 12 years ago. Boynton's wall are full of cracks, the first floor hall has a bulge in it, the third floor sags six inches, and the ceiling is held up by two slim posts. While no immediate danger exists, the building is still unsafe, and will be evacuated by summer. The offices left by the Humanities Dept. returning to Salisbury will probably be occupied by the displaced administrators. Next year renovation will begin and should be completed in a year. The unexpected work on Boynton will not affect the planned work on Sanford Riley, which will be started when special funds are available.



What's happening to Boynton support? Photo by Rory O'Connor.

Final meeting on May 12

CCS looks back on year

As the end of the school year approaches, it is time to evaluate exactly what the Committee of Concerned Students has accomplished. Simply stated: the Committee, with the exception of the Traffic sub-committee, has accomplished nothing. The reason? A sub-committee system that was too structured, and, in some cases, duplicated existing organizations on campus. This sub-committee system forced those students on it to go running around looking for problems in their respective areas, instead of looking at the problems of the school as a whole.

Therefore, the sub-committees were dropped and what was left was a group of concerned students structuring themselves. As quite a few of the members are seniors, our pool of concerned people is dwindling, and will always dwindle at the end of each Term D if all the Committee is composed of is seniors. Therefore we would like to have as many underclassmen as possible next year to continue the Committee in its new, unstructured form. To this end, there will be a CCS meeting on Wednesday, May 12, at 7:00 p.m. in the Wedge. At this meeting, next years chairman will be elected and the direction of the Committee set by those attending. Hope to see you there.

— —

Jeremy K. Jones
Chairman, CCS

Patent law opportunities

by Laura L. Mattick

When C. Marchall Dann visited the school in February for a trustees meeting, I had the pleasure of talking with him. Mr. Dann is the U.S. Commissioner of Patents. He was appointed to this office in 1973 by President Ford. For almost thirty years previous to this appointment, he worked in the legal department of DuPont. From 1968-1973, he was DuPont's Chief Counsel of the Patents Division. A chemistry major and graduate of WPI in 1935, he was class president, a member of Tau Beta Pi, Sigma Xi, and the SKULL.

Although we chatted about his views of WPI now and then, the main focus of our discussion was the patent system and the opportunities in patent law. The purpose of the establishment of the patent system is to "promote progress of science and art." The patent system provides incentives to invent and commercialize, encourages research and development, and disclose new inventions to the public. Last year there were 102,000 patent applications, 72,000 of which, we granted. As new patents are granted they are printed in a weekly gazette.

Mr. Dann pointed out that there are many opportunities in the government, in companies, and in patent law firms for an engineer with patent law training. He suggested two ways to "break into" patent law. One way to work as a patent-examiner in the Patent and Trademarks Office, while going to law school at work. Or to work for a company that has a patent law training program, such as Mr. Dann, himself, did while working at DuPont.

Consider patent law, it might be the field for you.

Editorials:
"Blow me down!"

In the last couple of issues of *Newspeak* there have been numerous editorial complaints about rudeness at concerts and other entertainment at WPI. But I went to the Mountain Blend and Pousette Dart Band concert and I found no evidence of this bad manners. I did notice one thing. There was no beer being sold on the premises. Beer was allowed into the concert but there was not a keg on the premises being tapped.

The concert was quiet and orderly. Before one of the bands came on there was a mime performance. Thinking that I knew WPI audiences I feared the worst. I pictured things being thrown and loud heckling from the audience. I was pleasantly surprised. WPI people actually appreciated the performance. Maybe WPI audiences are ashamed of their past performances. Maybe beer should not be sold at concerts. Whatever it was that stopped the rudeness, I hope the audiences at the rest of the concerts this year behave as well as the audience did Wednesday night.

S. B. Fine

Surprised by good crowd

Vandalism on campus is becoming more and more evident these days, especially in connection with the windmill atop Daniels Hall. This was a student project, not another of WPI's energy-saving attempts. The student who worked on this put in much time and was very hopeful for its success. Congratulations to the schmuck(s) who saw fit to sabotage it and let some people believe that the storm did it. Hurrahs also going out to all the people who neglected to notice the vandals climbing up the stairway with a crowbar or two. It's a common enough activity, I realize, and those engaged in it are hardly noticed while going about their business of Jimmying doors and breaking locks. But seriously, folks, it's about time that we began to care about that which belongs to others as well as that which belongs to us.

Rory J. O'Connor

Intent vs interpretation

I would like to clear up a misunderstanding which I seem to have created in my editorial of April 27 entitled "Downhill...". It seems that my reference to the Boynton has upset certain people, among those the owners of the establishment. It has been brought to my attention by some people at this school, students and faculty alike, that the people who own the Boynton are very concerned with the welfare of WPI students. It has been mentioned that since they purchased the Boynton in 1971, they have spent a good deal of time and money to make it a quieter place than the rumors still suggest. My intent was to encourage those who did not want to listen to the performers at WPI functions to drink at establishments created for that purpose, such as the Boynton. There are other places to do that as well. I maintain that WPI is not one of them.

Rory J. O'Connor

Newspeak

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Newspeak of Worcester Polytechnic Institute, formerly *The Tech News*, has been published weekly during the academic year, except during college vacation, since 1909. Editorial and business offices are located at the WPI campus in the Room 01, Riley Hall. Printing done by Ware River News, Inc., Ware, Mass. Second class postage paid at Worcester, Ma. Subscription rate $4.50 per school year, single copies 20 cents. Make all checks payable to *WPI Newspeak*.

Letter:
Lens & Lights praised

To the Editors:

I feel that it is time that a certain very important club on this campus gets some of the public recognition and appreciation they deserve...I am referring to the Lens and Lights Club.

This club, of which I am not a member, consists of about 40 hard working students, who, in addition to meeting the time-demanding requirements of their classwork, put in countless thankless hours projecting movies, doing sound and lights for concerts and the Pub, and an infinite amount of other things for ungrateful Techies.

I find it sad that the only time I see the "average" Techie commenting on the club's work to a member is when something has gone wrong. Although the quality of work they do approaches that of professional, we must remember that [illegible] members are, after all, students like [illegible] selves, and are not perfect. It would [illegible] nice, if instead, Lens and Lights [illegible] heard someone telling them not, "[illegible] spotlights stink", but "The lights look [illegible] sharp," "The movie was terrific," or [illegible] "The popcorn is really good."

These students perform a vital [illegible] consuming much of their time, for [illegible] they receive no pay. If a professional [illegible] company was contracted to do [illegible] Harrington concert, it would probably [illegible] about $600, and you know where [illegible] money would come from.

So, appreciate what the Lens and Light[illegible] Club is doing for you, and if a club member is around, let him or her know you do.

Leslie S. Greenfi[illegible]

On Projects:
Automotive engineering

by Victor Kozakiewicz

On or about June first a rolling chassis for a rather unique mid-engine sports car will be delivered to the mechanical engineering department of WPI. This vehicle, in conjunction with a student-conceived development-test program and the facilities of the three acre Liberty Mutual Insurance Company skidpad, will lay the foundation for a new series of advanced projects.

It is hoped that people who are seriously interested in automotive engineering, (including design, testing and instrumentation) will be ready to come together to further this project to the status of a rolling laboratory. Those who happened to miss out on some of the collegiate competitions orientated toward design will now have an opportunity to be part of a continual program that should prove to be at least as exciting as well as more of a "controlled" experience. The emphasis is on *engineering* not just building.

IQP

A proposal has been submitted for an IQP which would present to interested students an opportunity to acquire a sound background in automotive engineering. The experience involves developing a course to investigate various aspects of performance (chassis design, handling, aerodynamics, fuel mileage, etc.) which will later be presented on a term to term basis.

Students entering their junior or senior year are sought to contribute on an MQP, PQP or IQP basis. Involvement will begin term A '76. A letter including more information is available in the office of Roger Borden, Higgins Lab.

IQP awards winners

by Paul Cleary

Six IQP project teams have been chosen winners of the first President's IQP Awards Competition.

The student winners were selected from 13 project entries by a panel of judges including representatives of WPI, local industry and area colleges.

The winners are: Michael Whelan, "Abortion: Ethics and Legality;" Glen Caldarola, David Erickson, Stephen Rourke and Theodore Stefos, "Application and Impact of a Municipal Access Cable TV Channel;" John Mangiagli, John Manning, Charles Nienburg and Brian Young, "Historical Analysis of U.S. Energy Policies;" Albert Cooley, "Issues in Technical Surveillance;" Steve Kovner, John Major and John Kuklewicz, "Societies for Starflight;" and Michael Dabkowski, Dave Pilch and Kenneth Stannard, "Environmental Impact of the Proposed Route 49 and Route 52 Connector."

The winning project teams will receive a certificate of merit and a $50 honorarium. The students and their advisors will be honored at a dinner May 17 in the faculty dining hall.

Judges for the competition were: President George W. Hazzard, Professor Charles Heventhal, Charles W. Mello, of Harvey and Tracey Associates and a 1961 graduate of WPI, Professor Theodore Von Laue of Clark University and Professor Rogers Johnson of Holy Cross College.

The award was initiated by the Division of Interdisciplinary Affairs in an effort to reward outstanding IQP work. Planning for the award began in the fall and the panel of judges was selected more than a month ago. Students were required to submit a copy of their final project report and a five page abstract of the report stating why the project was of outstanding quality. Judges reviewed the abstracts and discussed the concept of the IQP in a meeting last week. Copies of the project reports were also available for the judges in Gordon Library.

Although the competition was originally intended to have no more than five winners, the judges felt there were six IQPs of outstanding merit. All six will receive awards.

Mike Whelan's project on abortion is an attempt to come to grips with a difficult topic on bioethics. Spurred by the 1973 Supreme Court ruling on the subject, Whelan studied various definitions of life and developed some of his own. Based on this study he makes recommendations for abortion guidelines. Advisors on the project were Betty Hoskins from Life Sciences and Thomas Shannon from Humanities.

The cable tellvision project studied the government access cable television program and makes guideline recommendations for its implementation in the town of Meriden, Conn. Students were aided by the Connecticut Department of Community Affairs in their work. The project dealt specifically with programming possibilities, governing bodies and regulatory policies, economic proposals and possible studio design and social implications. The project team's report was submitted to Meriden's Mayor. The work received publicity in the *Hartford Times* newspaper. Advisors were James Matthews from Electrical Engineering and Ken Scott from Mechanical Engineering.

The project on U.S. energy use was done at WPI's Washington Project Center in conjunction with the Institute of Electrical and Electronics Engineers (IEEE). The project team examined four policy issues: environmental regulation of coal production, natural gas regulation versus deregulation, gasoline conservation through taxation and legislative control of outer continental shelf development. Stanley Weinrich from Chemical Engineering and Frank Lutz from Civil Engineering were the advisors.

Al Cooley's report provides an overview of the basic issues at stake in the technological surveillance controversy. His report deals with an outline of the concepts of privacy and their integration in our legal system, court decisions regarding electronic eavesdropping, a review of the Omnibus Crime Control Bill, types of electronic bugging devices and comments by those in favor of and those opposed to the current law. John Zeugner from Humanities was the advisor.

The project on starflight societies attempts to outline the structure of a society which would be in existence during space travel. The characteristics and goals of such a society are examined and an at-

[*Cont. to page 6*]

On the price of beer

by Rory O'Connor

The Goat's Head Pub will be forced to pay $7000 rent next year for the space it occupies in Sanford Riley if the objections of the Pub Board are overruled. The figure was given in a letter to the Pub Board by John Curtis, manager of Auxiliary Operations. The letter claims that the rent is charged on a "square foot basis" and is due in two installments of $3500 each at the beginning of each semester.

The Pub Board has asked Curtis for a breakdown of "what the cost is for, how it was determined and what the Pub is to get in return for this rent," according to Dr. Thomas Keil of the Pub Board.

"It's too much," said Keil. "The last time it was proposed that the Pub pay rent, which was last year, the proposed figure was, well, a third of that," he stated. At the time, the rent was suggested as a means for the Pub to share heating expenses and other costs incurred in Sanford Riley.

If the rent is charged to the Pub, the only way for the Pub to meet the obligation will be to raise the price of a beer about 5 cents above the present levels. "The Pub is basically at break-even status now," said Keil. "There is $90,000 worth of business in the Pub, but there is barely enough money to pay for repairs if the cooler breaks down."

Mr. Curtis said that the students who reside in the dormitories presently pay for the upkeep of the space which the Pub occupies, including heat, electricity, and trash removal. According to Curtis, the Pub occupies about 7000 square feet of floor space, which presently costs the students about $3.30 per square foot to maintain.

This would seem to indicate a fee of $23,000 or so, but it was Curtis' feeling that "the $23,000 rent figure would absolutely wipe out the Pub, so I cut it by two-thirds to $7,000."

The letter sent to the Pub Board was not sent "cold turkey" according to Curtis, but was preceded by talks with the Board and its Chairman, Harry Thompson, who was "thoroughly agreeable to the idea," said Curtis. He called the $7000 figure "arbitrary" but "reasonable".

According to Thompson, the entire Pub Board agrees that there should be "responsibility on both sides." There is a responsibility on the part of the Pub, he believes, to help pay for the cost of operation, and a responsibility on the part of the school to provide something in return for the price of rental.

There are plans for a committee to look into the relation of the Pub to the school and vice-versa. It was initiated about two weeks ago under President George Hazzard, but has not yet begun to look into the problem.

Organic agriculture booming

by Robert Danko and Peters Willson

With more than half of the households in the U.S. expected to have some kind of vegetable garden this year, the backyard farmer has been cropping up in the news -- especially the gardener who believes in an organic philosophy of gardening.

But the organic philosophy is not shared only by small plot gardeners. As many as 10,000 farmers are practicing it on commercial size acreages throughout the country, according to Rodale Press, a Pennsylvania publishing house of organic gardening and farming literature. These farmers, too, may be in the news more and more as the changing scene in conventional U.S. farming -- rising energy costs, restrictions on pesticide use, fertilizer shortages -- is compelling scientists, environmentalists, and, most importantly, agriculturalists to explore the benefits of organic agriculture.

In fact, these explorations already have produced newsworthy findings. According to a study funded by the National Science Foundation, organic farms have been found to produce crop yields comparable to those of conventional farms while using only a third of the energy.

The philosophy of organic agriculture emphasizes the completion of the life cycle by returning animal manures and crop wastes, as well as garbage and human wastes, to the soil. The goal of every organic farmer is a soil rich in humus -- the decomposed matter from the manures and wastes that improves the workability of the soil, its moisture content, and its resistance to erosion. Maintaining a balanced ecosystem is another important philosophical goal of organic agriculturalists, which is one reason why they do not use synthetic fertilizers and pesticides.

That doesn't mean organic farmers advocate a return to pre-20th century days of farming. They too employ the latest technology and scientific information that has become the trademark of American agriculture. But they don't let it upset the ecological balance in their farming which they believe in the long run will ensure the continued health and productivity of the soil.

Agriculturalists often cite the nitrogen fertilizer-energy connection first when they get into the future problems of farm production. Nitrogen is an essential nutrient needed for plant growth, and conventional agriculture depends heavily on the availability of synthetic nitrogen fertilizers for its success. Since these fertilizers in the U.S. are produced exclusively from natural gas, the price of nitrogen fertilizers reflects the availability of the gas. The possibility of a natural gas shortage, which could affect both fertilizer prices and agricultural production, understandably worries many people.

That isn't the only energy problem confronting future farming. U.S. agriculture is equally dependent on pesticides, many of which also are made from petroleum products. More disturbing is the growing ineffectiveness and environmental damage which results from the over-use of some pesticides.

While conventional farms rely on energy-intensive fertilizers to provide nutrients to crops, organic farms depend upon the manures and crop wastes. Recently, a coalition of organic farmers, environmentalists, and two Congressmen announced their initiation of a National Soil Fertility Program to encourage the return of garbage and sludges to farmlands as an alternative to the present systems of land filling and sludge disposal. Better soil fertility and safer disposal are the double benefits the program is promoting. Advocates of recycling organic wastes back to the farms believe the time has passed when the U.S. can afford to "waste" its garbage and sludges.

The NSF-funded study on organic crop production was published last July by the Center for the Biology of Natural Systems at Washington University in St. Louis. It matched 16 organic farms to conventional farms as closely as possible with regard to size, location, soil characteristics, and livestock programs. The sizes of the 32 farms renged from 171 to 875 acres.

The conclusions of the study question the tenet that energy-intensive agriculture, with its heavy use of fertilizers and pesticides, is the best way to keep production up. The research showed: 1) The market value of the crops organically grown is only slightly less than that of the conventionally grown crops; 2) Operating costs are $16 per acre, or 9 per cent, less on organic farms; 3) Energy consumption by organic farmers is one-third that of conventional farmers.

Those kinds of conclusions don't promise the replacement of conventional farming with organic farming in the future. But they do prove the need for more scientific research then organic agriculture has received in the past. The time may well have come for what organic farmers call the "practical, less energy intensive, ecologically sound agriculture."

Classifieds

Rooms available for next year. Near Tech, low rent includes heat, water, and electricity. Call Stella Ryan at 753-5874 or drop in at 15 Hackfeld Road.

Room (1) Single available for September semester. Close to campus, reasonable rent. Please call 755-9616.

IQP funding

by S.B. Fine

The funding of IQP's has become a recent problem at WPI. Some people with the more expensive IQP's have found them difficult to fund. They find that the average amount of funding, about ten dollars, is inadequate.

There are certain things that the IQP funding will pay for and some things it will not. Some of the things that will not be paid for are typing copying, and contracting for personal services. But the IQP center will pay up to 200 dollars for other things.

The money for funding of projects comes directly from tuition. Expensive projects such as the Washington project are paid for by the National Science Foundation, Polaroid, The Sloan Foundation, and various Washington agencies. Many projects are paid for by outside agencies. A student can write a proposal for a project and send it to the National Science Foundation. If they like it they will probably send a grant to the student to do the project.

There is a large difference between the amounts of money a IQP and a MQP get. An MQP can cost as much as 5000 dollars a year where an IQP cost closer to 500 dollars a year. The MQP's usually use more equipment and are able to reuse it. IQP's frequently cannot reuse their equipment.

Overall the MQP's get more money than the IQP's. But the school tries just as hard to get outside funding for the expensive IQP's as for the MQP's. So if one is planning an expensive project, get outside support. The school may not be able to pay for it.

Windmill vandalized

The windmill on last week's cover is (was) a PQP by Bryce Granger, the Photography Editor of *Newspeak*. It was designed to eventually produce 500 watts of power. It was constructed of redwood clapboard covered with fiber glass and using electrical conduit for the framework. It was also deliberately destroyed by vandals last Monday, May 3. Some vandals with a crowbar broke the lock to the roof of Daniels, and using a hacksaw separated the conduit connecting the blades to the framework to within about 1-8" of breaking, enough to force it to break when the next good gust of wind hit. Bryce said he plans to rebuild it and put it back on the roof of Daniels.

New Corporate Affairs Director

WORCESTER, Mass. -- Thomas J. Moriarty (Capt. USN Ret.) of 5 Kenilworth Road, foundation executive of the USS Constitution Museum Foundation, Boston, has been appointed Director of Corporate Affairs at Worcester Polytechnic Institute, WPI Vice President of University Relations Thomas J. Denney, announced today.

A graduate of Holy Cross College in the Class of 1939, he had a distinctive military career before serving as the Holy Cross director of annual giving for more than five years until resignation last June as Director of the Holy Cross Fund.

He had taken that assignment after nearly 30 years of Navy duty, last of which was as professor of naval science and head of the Naval Reserve Officers Training Corps at Harvard University.

During Captain Moriarty's term as director of the Holy Cross annual giving program, there was an increase in alumni contributors from 3600 to more than 5500, representing an increase in alumni giving from $440,000 to more than $620,000 during the five-year period, it was announced at last June's H.C. alumni dinner in Kimball Hall, where he was honored.

Before his appointment at Harvard University, Capt. Moriarty served as Commander of Destroyer Squadron Ten, a squadron of nine destroyers operating in the Mediterranean and Western Atlantic.

Between 1965 and 1967, he was Secretary of the Naval War College at Newport, R.I. and received the Navy Commendation Medal for performance of duty there.

A native of Holyoke, he is married to the former Mary V. Shea and is the father of seven children.

New CE ass't prof appointed

Dr. Masad J. Zakkak, who received a Ph.D. this year at the University of Texas at Austin, has been appointed an assistant professor of Civil Engineering at WPI, according to Vice President and Dean of Faculty Ray E. Bolz.

Dr. Zakkak is a native of Beirut, Lebanon. He received a bachelor of science degree in civil engineering from the American University of Beirut.

He was in industry as a site engineer with Consolidated Contractor Co., station engineer with Tapline, project engineer with Saleh & Abd-Aziz Co., then resident engineer for several years with Atto Engineering and Contracting Co. He received his master of science in civil engineering in 1973 from University of Texas at Austin.

Skeptical Chemists meeting

by David Todd

On May 6 -- yes, Spree Day -- at 4 p.m. the Skeptical Chemists and others interested in chemistry met to hear Dr. Gribble of Dartmouth College give a fascinating, but disturbing, account of "Chemicals and Cancer", both the good and bad sides.

Prior to the talk and after a hard-fought campaign that made the Carter-Udall-Ford-Reagan effort look like a pale imitation of the real thing, the following slate of officers of the Skeptical Chemists for '76-'77 was elected to tumultuous approval: President - Annie Harris; Vice President - Brian Timura; Secretary - Dick Durand; Treasurer - Martha Sullivan.

Next year this dynamic group will lead the Skep Chemists in sponsoring a series of meetings that will cover a wide range of topics of interest to students. It is expected there will be meetings dedicated to spreading the word about available chemistry MQP's, to explaining professional areas the aspiring young chemist can consider for his-her future, to an analysis of the medical school admissions hassle, and to special topics in chemistry presented by visiting speakers.

Keep your eyes open -- these meetings will be well worth attending. And there will be the famous S.C. refreshments available at each meeting.

Rev. Scanlon named to "Who's Who?"

The Reverend Peter J. Scanlon was one of four priests in the Diocese of Worcester who along with Bishop Bernard J. Flanagan were named to the first edition of "Who's Who In Religion."

Father Scanlon the Bishop's Vicar for College Communities in the Diocese of Worcester is also the Catholic Chaplain at Worcester Polytechnic Institute.

The "Who's Who" publication board claims that inclusion into "Who's Who In Religion" is limited to those individuals who have demonstrated outstanding achievement in their own field of endeavor and who have, thereby, contributed significantly to the betterment of contemporary society.

This is the final issue of Newspeak this term.
Have a nice summer. We will return in September.

IQP HITCHHIKING: writing a New England Guide to be done E term. If interested, contact Mike Sullivan, Box 1414.

Class elections were postponed from last Thursday (due to Spree Day) and will be held this Thursday, May 13, in the lobby of Daniels Hall from 10 a.m. to 4 p.m.

'Projects, get your red hot projects'

by Tom Winbrow

Projects Available: MQP's, IQP's, PQP's, NQP's, IS-P's, MS-P's, PHD's.

All majors and minors needed.

This is your chance to get in on the ground floor of the Wonderful Project. This project is the long awaited culmination of the WPI Plan. When implemented in the fall of 1978 this dramatic final phase, or "Super Plan", will be the greatest breakthough in education since the invention of the crib sheet. To celebrate this momentous occasion on Registration Day the name of the school will be changed to the Wonderful Project Institute. Under the "Super Plan" all courses will be completely eliminated from the curriculum in order that all students, faculty, and staff may devote 100 per cent of their time to the Wonderful Project. And what a project it is! It will completely eliminate pollution and provide unlimited low-cost electric power to the entire free world.

A crack research team headed by WPI Professor's Bogus, Demented, Waffle, and Zipper has been at work for months. Brilliantly disguising their Top Secret effort in Salisbury Labs as renovation work, the team has produced amazing results. They have discovered that fully 85 per cent of the tornadoes in the United States strike and destroy mobile home trailer parks. This may seem incredible at first, but think about it. How many times have you turned on the news or picked up a newspaper only to see another tragic report of how a mobile home park was blown off the map by a vicious twister? Almost daily I'm sure.

Our crack research team and knitting club discovered that trailer parks exert a very mysterious and powerful force on tornadoes. A good sized mobile home park can attract a tornado from as far as 75 miles away. Even more incredible is that under certain conditions not fully understood yet, a trailer park can actually generate a tornado out of thin air, thus causing its own destruction!

After this amazing discovery a brilliant thought popped into the razor-sharp minds of the research team members. Why not set up phony, uninhabited trailer parks to lure the dangerous twisters away from people, thereby saving countless lives and property? A fantastic idea which extensive testing in Salisbury Labs mini-twisters produced by electric hairdryers proved workable. We can only stand in awe at the courage of these men as they barely escaped with their lives on several occasions when the mini-tornadoes, influenced by the mysterious power of the trailer park model, got out of control and caused extensive damage to the building and grounds.

It was at this point that the team's genius Atea Waffle, who boasts an IQ well into the double digits, showed his stuff by coming up with what must be the greatest idea since sleep. He suggested placing giant heavy-duty windmills in the phony trailer parks. They would serve to suck the life out of the dangerous twisters and as a byproduct produce incredible amounts of free electricity.

Inspired by Waffle's brilliance the team proceeded to test out and refine his idea. After much dedicated research they decided that 17 properly designed fake trailer parks located in carefully selected wilderness areas of the West and South would all but completely remove the threat of danger from the deadly killer twisters. In addition, if the secret to the park's tornado-generating power could be discovered, they could easily provide enough electric power via windmills to supply the needs of the entire U.S.A.

One problem remained. The windmills can provide power only for a few seconds before the tornado is drained of energy. Such a huge burst of power would blow out every light bulb and electric toothbrush in the country in a fraction of a second. How to regulate that bast power so that it is available only as needed was the problem and it baffled the team for weeks.

Finally, however the expertise of theam's EE brain and T.V. repairman, "Stuck" Zipper, came though with the answer. Stuck's mind-boggeling solution was to turn the Great Salt Lake in Utah into a giant storage battery by inserting thousands of lead and zinc plates into the salty water. The windmills can then "charge up" the lake in bursts as tornadoes are trapped and power can be drawn off as needed from the world's largest battery. So we not only get free electric power but a Guiness World Record to boot!

I.M. Demented, the humanities man on the multi-disciplined team, suggested that the phony mobile homes would make ideal low-income housing, thus easing a critical wilderness housing shortage. The other team members, however felt that even the poor and destitute would be uneager to live in an area buffetted almost constantly by 600 MPH winds. Demented conceded "Walking around might prove somewhat difficult."

Not to be outdone U.R. Bogus, the team's civil engineer and part-time custodian, suggested an ambitious second phase for the project. Bogus's idea was to construct a number of gigantic floating islands out of discarded styrofoam coffee cups. These islands, several square miles in area, will be equipped with phony mobile homes and windmills on top and giant storage battery plates underneath. The islands will cruise the seven seas leading dangerous waterspouts and hurricanes out to open sea where they can safely be used to generate electric power via the windmills. When fully charged they will be anchored near shore where they can transmit the electric power to land by giant extension cords. In this way the entire world can be provided with free electric power.

It is the goal of the Wonderful Project and the WPI Super Plan to provide enough engineering know-how, hard work, and coffee cups to see the land based project completed within 10 years and the worldwide project within 20 years. The research team says "The theory is all there, all we need is approximately 47,628,079.25 student hours of work, not including time out for donuts and spree days, to see it in operation." According to "Stuck" Zipper the toughest part, the windmills and generators to take the 600 MPH winds, are already available government surplus from Edmund Scientific Co. and "The rest is just grunt work."

As a short term solution to New England's power shortage the team has another idea advanced to the pilot plant stage. It uses a steel tree with a phony golfer underneath to attract lightning. They have already produced enough power to heat a can of soup for lunch and expect another breakthrough by the end of the week.

Fame, fortune, and B.S. await those who join this fantastic team in their quest to become "Technological Humanists", so see your advisor and sign up today!

New England artist's show

Hundreds of artists, performers and craftspeople are expected to show and sell their art and services during "The New England Artist: A Festival and Showcase," May 15 and 16, at the Tri-county Fairgrounds in Northampton.

The weekend event is planned to appeal to the general public and talent scouts looking for performers and artists for other programs.

Showcase performances, poetry reading, films, a special exhibition of paintings and sculpture, small press publications and video artistry are planned.

Information booths will provide a look into community arts programs, organizations and arts courses. Children will be able to try their skills in the arts under the supervision of artists and art educators.

The festival showcase is designed to present the diversity and quality of New England artistic talent. It is sponsored by the Arts Extension Service of the Division of Continuing Education at the University of Massachusetts—Amherst. Performers, craftsmen and artists are still welcome to exhibit.

For information, contact the Arts Extension Service at the Division of Continuing Education, Hills North, UMass, Amherst, Mass. 01002 or call 413-545-2013.

Worcester craft fair

Over 100 craftsmen from the northeast will exhibit and sell their creations at the sixth annual craft fair May 22 and 23. The craft fair has become a Worcester tradition, attracting thousands of adults and children. It is held at the Craft Center, 25 Sagamore Road, Worcester, Mass.

The craftsmen invited to participate in this year's event will exhibit and sell weaving, stained glass, pottery, patchwork, jewelry, leather, wood, enamels, and toys. A special bicentennial room will feature a fife and drum corps and demonstrations of early American crafts.

The Craft Center, a teaching institution the rest of the year, is transformed into a colorful marketplace offering flowers, balloons, food, crafts, and general festivities. Food facilities include an outdoor eating area featuring traditional and health foods.

Special areas have been set aside for craft demonstrations. There will be a glassblower and a blacksmith demonstrating their techniques as well as individual exhibits by the craftsmen.

Children's entertainment will be in a special tent this year. The Worcester Children's Theatre will present "Scupper Dupper," a childrens' travelogue. Harlan Radler will present the "Ha-Ha Puppet Theatre" for the children's enjoyment.

May 23, at the close of the fair, the winning ticket will be drawn for the Worcester Commemorative Patchwork Quilt. Made by Worcester craftswoman Elizabeth Meagher and valued at $1,500, the patchwork quilt will be on display throughout the fair and is a unique bicentennial work or art.

The fair hours are 10:00 a.m. to 6:00 p.m., rain or shine on May 22 and 23. A donation of $1.25 for adults and 50 cents for children benefits the Craft Center, its classes and exhibits.

For further information contact Rene Goldberg, 617-755-6305.

Forum on nuclear energy

The Regional Environmental Council, together with Clark University, is presenting a program on the highly charged topic of nuclear energy.

The debate over nuclear energy is heating up again with opposing positions more solidified than ever. Five experts in the field of nuclear power will present their respective viewpoints, which will cover all aspects of this critical subject:

Jan Beyea, PhD., Assistant Professor of Physics, Holy Cross College

Roger Casperson, PhD., Professor of Geography and Government, Clark University, Project Director of Project RARE (Ford Foundation study into nuclear power, risk assessments, safety regulations)

Christoph Hohenemser, PhD., Associate Professor of Physics, Chairman of Science, Technology, Society Program, Clark University, engaged in Project RARE.

Andrew C. Kadak, PhD., Nuclear Engineering, Manager of Nuclear Information of New England Power Service Co., formerly of Westboro office, now in Providence, R.I.

Leslie Wilbur, P.E., Professor of Mechanical Engineering and Director of Nuclear Reactor Facility. Worcester Polytechnic Institute

Is nuclear power the "Angel of Death" (Ralph Nader) or "The Nation's Salvation" (Rep. Mike McCormack)?

DON'T MISS THIS OPPORTUNITY TO GET SOME ANSWERS TO QUESTIONS THAT ARE BEING ASKED ALL OVER THE COUNTRY:

1. Is nuclear energy safe? How safe?
2. How reliable are today's nuclear reactors?
3. How are nuclear wastes being disposed of?
4. How has thermal discharge affected the ecology of rivers and lakes?
5. What are the economics of nuclear power?
6. What are the risks of nuclear terrorism?
7. Are small amounts of low-level radioactive wastes being released into the air and water?
8. Are there any viable alternatives to nuclear power — particularly in New England?

¶Academic Center Building, Room 218, Clark University. (Entering the Clark campus from the Main St. entrance, the Academic Center is the second building on the right — a reddish building, *attached* to the first building).

Here's to hackers

by Tony Camas

All right, I admit it! I *am* a hacker. I've been one for several years now and I will in all likelihood continue to be one, probably for the rest of my life. And there's nothing anyone is going to do that can change me. I am what I am.

A hacker, for those of you less fluent in the English language, is one who hacks. On computers. You see, at one time, the verb "to hack" meant "to do harmful things to computers". Hackers were people who found funny ways to make computers get very sick, or used funny system bugs to obtain funny people's computer passwords, or found ways of getting funny things to type out on funny people's terminals. Hackers were people who thought computers were very funny.

After a while, though the term "hacker" began to take on a slightly altered meaning. Apparently, it was the consensus of many people that a person who was using a computer for something that wasn't coursework *had* to be up to no good. So, over the years, a "hacker" became a term used to describe a person who was in the habit of using computers when there was no particular reason why he had to.

And this, friends, is the sin of which I am guilty.

Being an admitted hacker, however, has caused me some problems. Apparently, a lot of people out there have a few misconceptions about hackers and the bizarre lives they lead. This lack of communication is most likely due to the fact that hackers and non-hackers (who we will hereafter refer to as "normal people") try to avoid each other. It is my theory that both hackers and normal people see hacking as a contagious disease. Normal people won't come near hackers for fear of catching the disease (God forbid), and this suits the hackers just fine, because, after all, terminals are hard enough to get as it is without all that extra competition.

Whatever the reason, it has come to my attention that there are certain facts about hackers that members of the putlic-at-large are not aware of. I would therefore like to clear up some common beliefs and superstitions about hackers and hackery by itemizing some little-known or little-understood facts below:

1. Hackers are not 'gweeps". Hacking is not studying — it is a source of recreation. Most people find this very hard to believe, only because they are yet to experience the joy of hacking. Hacking is more of a hobby than anything else.

3. Male hackers are not sexually attracted to computers, computer terminals, or other male hackers. Those people who *are* are not hackers, they are very ill.

3. Contrary to popular belief, there *is* such a thing as a female hacker. Most of them are not as avid as male hackers, mainly because girls around here usually find it a lot easier to find other things to do than us guys, which in turn is probably due to the relative size of the two groups.

4. There are a number of "closet hackers" hiding around this school who would like to hack but don't, because they are afraid of what their neighbors might say.

5. Hackers do not sit in front of terminals 24 hours a day. Most of us have to eat, drink, sleep, and eliminate our wastes, just like normal people. A few of us even take time out now and then to go to classes, do homework, and eventually graduate from this place.

6. Hackers are not antisocial. Many of us, however, would rather hack than watch television, play games (with the possible exception of one game-like activity...) or twiddle our thumbs.

7. There is no particular health hazard involved in sitting at or near the so-called "hackers' table" in the dining hall, with the possible exception of the food, which is just as dangerous everywhere else.

8. All hackers do not have strange nicknames (except for Tribble, Nova, Ear, Whisler, Junior (an ex-WPI hacker), Eh, and a couple hundred others).

9. Hackers are not (in general) mentally ill.

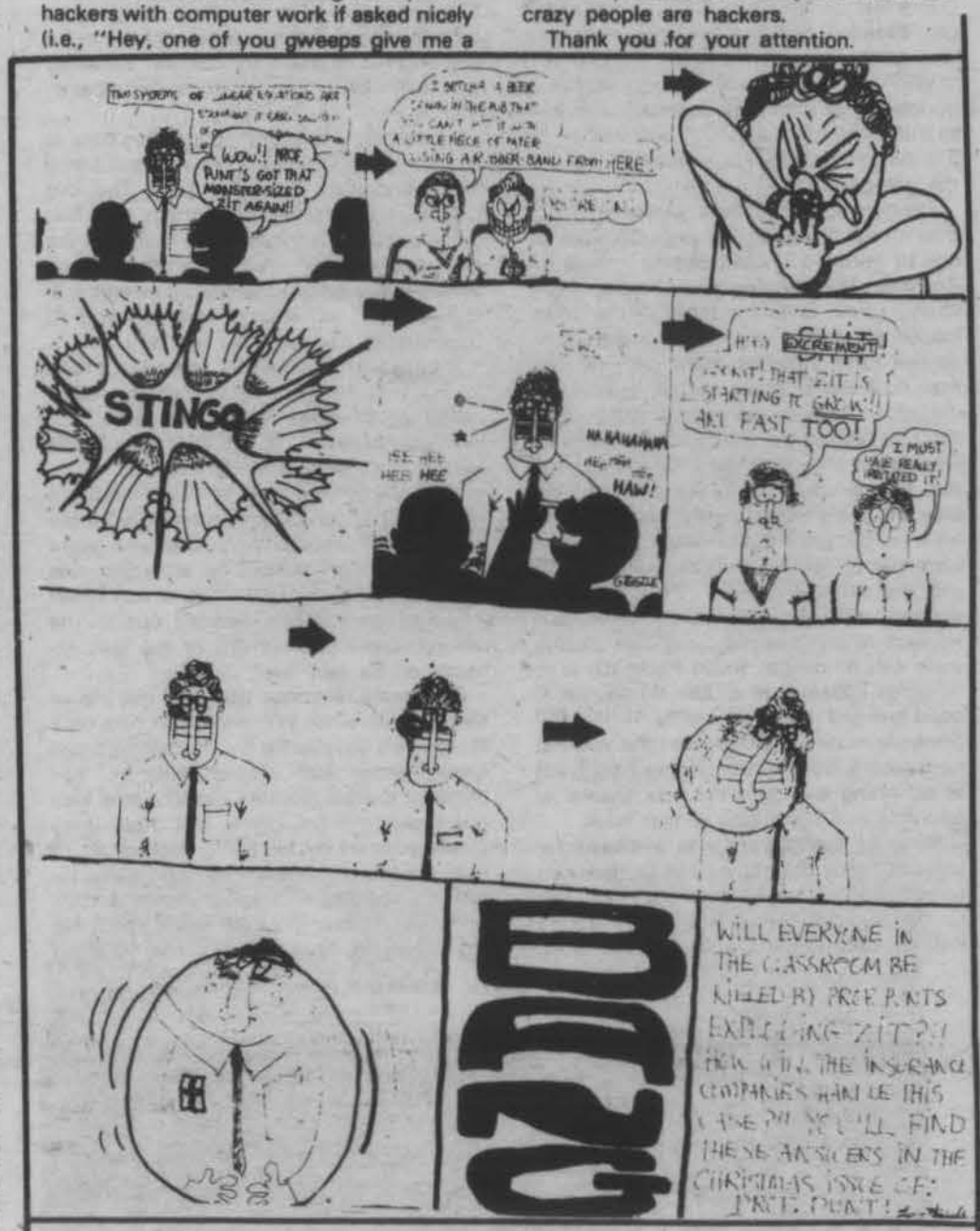
10. Hackers do not consider non-hackers stupid. We realize that most people are poor and underprivileged.

11. Most hackers are willing to help non-hackers with computer work if asked nicely (i.e., "Hey, one of you gweeps give me a hand with this stuff, huh?" doesn't usually produce as much response as less arrogant requests for help).

13. Most hackers realize the priority coursework and project work has over hacking and are willing to relinquish a terminal for such purposes.

13. All hackers are not CS majors, nor are all CS majors hackers. It *is* a fact, however, that many hackers are crazy and that most crazy people are hackers.

Thank you for your attention.



American photography exhibition

As its major summer presentation the Worcester Art Museum has organized a comprehensive exhibition tracing the history of photography in America. Entitled *American Photography: 1840-1900*, the exhibition is supported by a grant of $4,000 from the National Endowment for the Arts, a Federal agency.

More than 120 images trace the development of the photographic medium from its introduction to its early maturity during the closing decades of the 19th century. The exhibition will be on view June 2 through July 25, 1976.

Stephen B. Jareckie, Curator of Photography, organized the exhibition which includes daguerreotypes, ambrotypes, tintypes, carte-de-viste pictures, Talbotypes, motion studies and stereographs. An illustrated catalogue of the exhibition by Mr. Jareckie will be sold at The Museum Shop.

Rare prints by famous and lesser-known photographers will be included in the special exhibition. Among the early works is a panorama of Niagara Falls taken on daguerreotype plates by William and Frederick Langenheim. An unusual balloon view of Boston by J.W. Black shows the State House and Common.

Civil War prints form an important part of the exhibition with works by Mathew B. Brady and his associates. Several treasured photographs chronicling the building of the Union Pacific Railroad by A.J. Russell will be on view together with topographical studies of the West.

Lillian Russell and Joseph Jefferson are among the theater personalities who sat before New York cameramen. Motion studies by Eadweard Muybridge reflect the rapid advance of photographic technology. The century closes with the new aesthetic appreciation of art photography featuring works by Gertrude Kasebier and Clarence H. White.

Lenders to the exhibition include the American Antiquarian Society; Boston Public Library; Chicago Historical Society; Fogg Art Museum; International Museum of Photography at George Eastman House; Library of Congress; The Metropolitan Museum of Art; Museum of Fine Arts, Boston; The Museum of Modern Art; Philadelphia Museum of Art, and private collectors.

Art classes

Dates for two popular series of summer art classes at the Worcester Art Museum have been announced by Merle S. Harbach, Curator of Education. Youth Classes will be held in two sessions, July 19-30 and August 2-13. The Adult Art Classes will also be offered in two sessions in 1976, the first five-week program May 31-July 2 and the second running July 12-August 13.

Michael Hachey is supervisor of Summer Youth Classes for ages 5 to 15 years. Photography, printmaking, sculpture, and theatre arts are scheduled in addition to the important basics of drawing and painting. Ten classes will have 1½ hour daily meetings each during the two sessions. Youth Classes are open to all, with tuition set at $25.00 for members of the Worcester Art Museum and $35.00 for non-members.

The two five-week sessions in the Adult Art Program double the class offerings of last summer. A new class will be taught in figure painting, in addition to courses in beginning and intermediate oil painting, basic drawing, and photography. Patricia Coomey is instructor for the first session and Robert Grady for the second, with Dennis Wixted teaching both photography groups. Adult courses are open only to Museum members, tuition ranging from $20.00 to 35.00 per course.

Information on both Summer Youth Classes and Adult Classes is available at the Worcester Art Museum Education Division, telephone 799-4406.

Congratulations to the winners of the Freshman Math Contest:

1st place — David M. Mann
2nd place — Clint Carpenter
3rd place — Donald Wiser
Honorable Mention — Steven P. Diaz, Laurent Rheault

Sponsored by the WPI Society of Mathematics

SPORTS

Record stands at 4-10

Baseball season winds down

by SAFA

Well, this might be the last baseball article of the year; if you want to know how the team does this week, you'll just have to come out either Thursday and see them play Brandeis or Saturday when they play two games against Amherst.

WPI is now 4-10. They split a doubleheader with MIT Saturday and lost to Suffolk Wednesday. WPI was leading 3-0 in the ninth inning against Suffolk but lost the game 5-3.

Concerning the Suffolk game; WPI got their runs in three single innings on a pair of hits by Ferron and Durbak and a triple by Sowyrda. Mike Walker was pitching a real strong game until the ninth. After Mike loaded the bases with three straight free passes, Peter Rowden came on. The first man hit a line drive to Durbak in left who misjudged it for a two run double. Now Dan can't be faulted too much for the ball was hit on a line and never got too high up. You see, Dan is up in the clouds most of the time and the ball just never made it up to his level, but back to the game. Now there were men on second and third with no outs and the score 3-2. After the next man popped out they executed a suicide squeeze to bring in the tying run. Seeing there was no play at home Peter threw to Sowyrda covering first. The throw was a good one and there was plenty of time but Sowyrda missed it and allowed the winning run to score. So Rowden pitches two thirds of an inning and gets the loss thanks to Sowyrda and his magic at first base.

None of the players was available for comment after the game. Dan Durbak was up in the clouds looking for someone to talk to on his own level. He finally found Priscilla about 2500 feet above sea level. Sowyrda was having withdrawal symptoms about his play. Rowden was waiting for Sowyrda to come out of his withdrawals so he could thank him personally. Tony Fernandes was scurrying back to Fiji to get back in time to put his jacket and tie on for dinner. Well so much for Suffolk. Saturday the team played a doubleheader against MIT.

In the first game MIT scored five runs in the first inning on two WPI errors and some all around poor defensive play. The five runs were all MIT would score in that first game as Paul Josephson shut them out the rest of the way. WPI scored in three separate innings but the final score was 5-3. Dan Durbak had a long homerun and Al Simakuskas had two hits for WPI.

In the second game MIT scored two runs in the first inning and everybody felt it would be a repeat of the first game. But WPI got three runs in the third on a bases loaded double by Dave Graham.

With the score 4-2 going into the bottom of the sixth (double-headers are only 7 ining games) MIT scored two runs and were threatening for more. The situation was tense. Yet a sigh of relief came out when "Young Dave Busch" trotted out to the mound. Dave pitched out of the jam by being, as he said later, "tough."

The game remained tied until the top of the eleventh when WPI scored six runs on a clutch two out double by Durbak with the bases loaded and a long triple by, you guessed it, Paul Avakian. Scott Farrel also got two hits in the game, but these were overshadowed by his being picked off at first. So the score was 10-5. WPI gained a split on the day and are presently 4-10.

Asking Durbak after the game about his big hit he said, "you talking to me?" Asking Paul Avakian about his long triple he said, "you talking to me or Dan!" Jim Cullinane said "I thought we were going to lose this one." The other players were unavailable for comment. Steve Moriarty was trying to convince Coach McNulty that even though he is 1 for 16 the last four games he should be batting third. Walker and Simakuskas were talking gibberish. Sowyrda was biting a piece out of his helmet because he went 0 for 7. George Fenon was babbling incoherently to nobody. Scott Farrel was trying to convince the coach that he really did watch the pitchers move when he got picked off. Young Dave Busch was trying to get everyone to stop calling him You Dave Busch. Well this could go on and on.

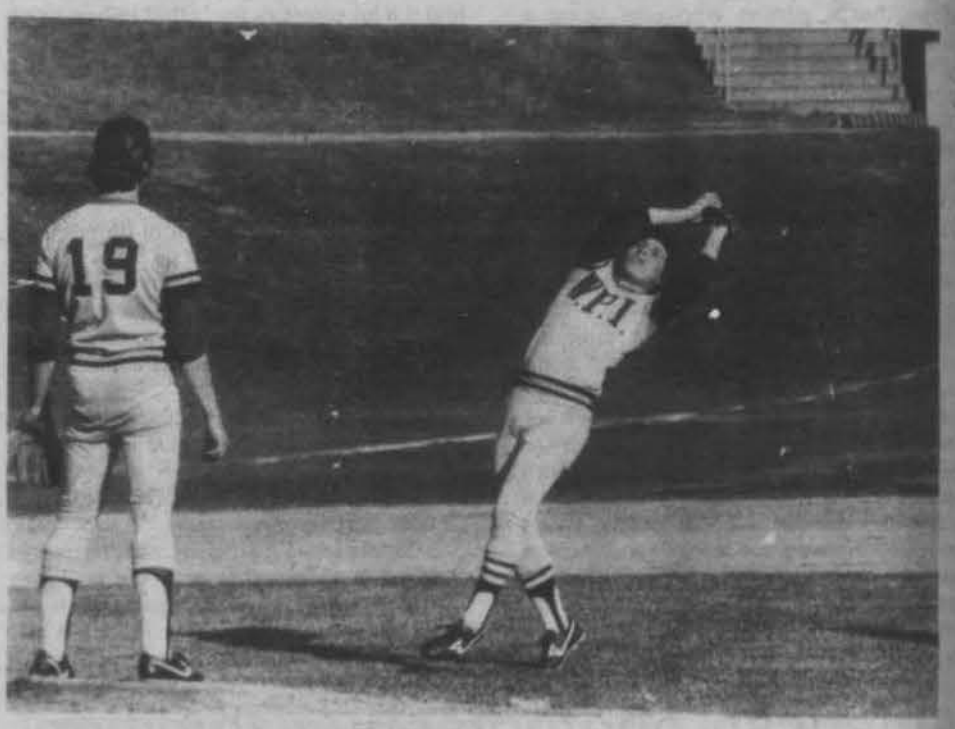
This could be the last baseball article of the year. I hope you all come out to watch WPI battle Brandeis Wednesday and Amherst Saturday. Even though the team isn't winning all the time they are an interesting bunch of guys that never fail to produce an interesting game.

IQP awards . . .

[cont. from page 2]

tempt made to outline the type of society which would best meet those needs. The project team describes the work as an effort to apply engineering problem solving analytical approaches to a broad problem in the social sciences. Advisor was Thomas Keil from Physics.

The environmental assessment project completed by Ken Stannard, Dave Pilch and Mike Dabkowski proposed several possible routes for a limited access connector between route 49 in Sturbridge and route 52 in Webster. The possibilities were narrowed to three and these paths were then examined further in terms of environmental impact and one path was found to be much less harmful on an absolute impact scale than the other paths. Advisors on the project were Allen Hoffman from Mechanical Engineering and Stanley Weinrich from Chemical Engineering.



Jeff Henningson squeezes pop up.

Photo by Robert Coolidge

Softball as an art form

Photo by Lewis Pettingel

STUDENT DPMA CHAPTER BEING FORMED

A student chapter of the Data Processing Management Association (DPMA) will be formed starting in September, 1976. Students interested in learning more about a career in datacenter operations or programming management are encouraged to take part.

A preliminary organizational meeting will be held this Thursday, May 13, at 4:00 in Higgins Labs, 130.

For further information, call Prof. L.D. Lipner, Ext. 477.

Town of Shrewsbury

Looking for Summer Workers

Civil or Drafting background.

Start June 1, 1976 — work to continue to September or later at discretion of employee.

If interested please call Rollins Robinson — 844-4871.

Worcester Polytechnic Institute
Chemistry Colloquium
Professor Jerome Berson
Yale University
"Chemistry of Some Trimethylenemethane Derivatives"
Wednesday, May 12, 1976
Room 227 Goddard Hall
Refreshments Will Be Served

DAILY RENTAL
ASK ABOUT OUR LOW PRICES
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COMMENCEMENT 1976

Saturday, May 29

2 p.m.

REHEARSAL FOR COMMENCEMENT

Thursday, May 13, 11 a.m.

Harrington

(Pub Open at Noon — Special Senior Day)

Pick up cap & gown in Bookstore available now — BS $7.00.

Pay diploma fee at accounting office by Thurs., May 20 — BS $10.00.

Be sure all obligations to the Institute are paid. Diplomas can be pulled and you could be not allowed to march otherwise.

Seniors must notify registrar's office if they are not planning to attend graduation.

Tickets are not required for admission to graduation.

Graduation invitations are available but not necessary for admission.

Invitations may be picked up in the Office of Graduate and Career Plans (Boynton Hall) as of April 30. Each senior is allotted six free invitations — each additional group of six is $1.00.

Graduate students may purchase six invitations for $7.00 or additional invitations in lots of six.

Please be prompt for graduation rehearsal.

———

Line up at 1:00 p.m. in front of Boynton Hall — Saturday, May 29 in case of rain — line up in Alumni Gym — basketball court — be on time.

Pub open after graduation for a while depending on business.

If you have any further questions, contact William F. Trask, OGCP, Boynton Hall.

TO: All Undergraduate and Graduate Students

RE: Receiving Mail During the Summer

In order to receive any mail during the summer months, it is necessary for you to complete a Post Office Card No. 3575 before May 19, 1976.

This card will be available at the Central Mail Facility in Daniels Hall. This card must be submitted to receive mail on or off campus. You are responsible for all first class mail to be forwarded as per your instructions.

The Worcester Post Office does not recommend forwarding magazines or advertising material.

PLEASE NOTE: Without filing an address card, all mail will be returned to sender after the five day holding period. Mail will not be held in student boxes.

Thank you,
Michael Kyritsis
Manager of
Mailing & Duplicating

SPREE!

photos by Bryce Granger and Lewis Pettingel

What's Happening?

Tuesday, May 11

GOLF vs AIC-NICHOLS, Mt. Wachusett C.C., 1 p.m.
LACROSSE vs WESTFIELD ST., away, 3 p.m.

Wednesday, May 12

CHEMISTRY COLLOQUIUM, "Chemistry of Trimethylenemethanes" Prof. Jerome Berson, Yale U., Goddard 227, 4 p.m.

Thursday, May 13

GRADUATION REHEARSAL, Harrington Auditorium, 11 a.m.
SENIOR DAY in the Pub, noon.
TENNIS vs AIC, home 2 p.m.
BASEBALL vs BRANDEIS, home, 3 p.m.
PLAY: "That Championship Season" Holy Cross, Fenwick Theatre, 8 p.m., May 13-16.

Friday, May 14

TRACK, New England Championship Meet at Boston College, 10 a.m., May 14-15.

Saturday, May 15

BASEBALL vs AMHERST (doubleheader) home, 1 p.m.
LACROSSE vs COLBY, away, 2 p.m.
COFFEEHOUSE, "Jade & Sarsparilla" Pub, 8:30 p.m.

Photo by Bryce Granger

Newspeak

Volume 4, Number 12 — Tuesday, May 11, 1976