

# Dean Nourse Resigns

Last Wednesday Dean Nourse resigned as Dean of Admissions, effective June 30, to become Director of Public Affairs at Middlebury. This past year he had been serving as an elected Alumni Trustee at Middlebury.

Having come to us from Clarkson College to organize our first Admissions Office, his planning, counsel and encouragement have brought nearly a decade of classes to Middlebury. As one of the senior admissions officers in New England, in point of service, his dedication, resourcefulness, hard work and optimism will be sorely missed. We are sure all these qualities will stand him in good stead as he returns and opens a new career in service of his Alma Mater.

# The Land of Goshen

by Alvin H. Weiss

Halbright-Hays Visiting Professor of Chemical Engineering

Ben-Gurion University of the Negev  
Beer-Sheva, Israel

One of the juniors in Chemical Engineering at Ben-Gurion University of the Negev is a Captain in the Israeli Defense Force (IDF). His name is Moti, and he is not an atypical Israeli undergraduate, in that he is married with a family, has been on active duty three years and a reservist three years in the IDF, and is very, very mature. Naturally, Moti was called to service when the Yom Kippur war started.

Moti invited Prof. Jaime Wisniak, Dean of the Faculty of Engineering and Technology and then head of the Chemical Engineering Department and he came to "Africa" on Saturday, January 26, 1974, two days before the start of the disengagement. "Africa" is the Israeli euphemism for the occupied area of Egypt west of the Suez Canal — the Biblical Land of Goshen.

Jaime and I rented a one-way car from Beer Sheva to Ben-Gurion (formerly Lod) airport. Moti had arranged that we were to be given passes and one-way plane tickets to Bir-Gifgafa, a huge airfield in north-central Sinai. At Lod there is a separate airport for the military, and we went there without benefit of uniforms or authorization. No problems. The airport is a very personal thing, filled with families saying farewells to their husbands, sons and daughters in the IDF going to the Sinai. Just as in a civilian airport, the destinations and times of departure and arrival of all planes were posted.

While we were at the military airport, we felt it would be discrete, for military security, if we kept our cameras in our pockets. It was cold, and we had no gear since the weather was threatening. We were taken by Egged Tour Buses, (Tourism is down a good bit now in Israel) to a waiting huge Boeing 707 Stretch Jet. Every seat on the plane was filled, and getting tickets was a real coup. Most soldiers hitch-hike to the Sinai.

Take off was like a civilian flight. "This is your pilot—we shall be flying at 3000 feet (to avoid radar). Our route will be west along the coast, then we shall head south at Nahal Yam to our destination. Expected weather is overcast, etc..."

As we flew so low over the Mediterranean Coast, we could see the seashore towns with great detail, including the Roman ruins at Ashkelon and the oil port of Ashdod. Because of the unavailability of the Suez Canal, Israel has a pipeline across it from Eilat to Ashdod. Ashdod is a major oil supply point between Europe and Asia. There were no less than fifty tankers in the harbor, and it is one more preposterous example of the inconsistencies of Middle East Politics.

We flew over Gaza and then the absolutely exquisitely beautiful (but ruined from the 1967 war) former Egyptian summer resorts of Dikla and El Arish. El Arish has magnificent palm groves, and is an oasis in Sahara — like sand dunes that look as if they were taken straight from the pages of Beau Geste, (we were swimming there at Christmas, and there is not a building without shell and bomb damage). The landscape along the road is littered with wrecked 1967 vintage tanks, half-tracks, and trucks.

IDF soldiers can serve their active duty on Nahals—military villages in sensitive areas where it is desired to both populate and protect. Soldiers build the Nahals into economically viable cooperative communities called Moshavim (much like the European "Dorf"). After discharge, most continue to live there with their families and develop a livelihood in their individually owned but cooperative enterprises. In the desert, aside from the military roles, most Nahals are experimental, such as greenhouses for growing off-season tomatoes exactly sized for the English housewife's taste. Nahal Yam is in the coastal lagoon-island region near the Egyptian occupied north-Sinai. Hydroponic farming and fishing are the industries in development there, and the Nahal is now a civilian settlement.

The plane headed south at Nahal Yam and flew over absolute bleak desert emptiness, and landed at Bir Gifgafa. It turned out that Jaime and I were the first off the plane, and as we walked away, we could see all the shutterbug soldiers snapping pictures of the 707 and fighter planes nearby. So we did the same.

At this point, it is interesting to describe the IDF soldiers (all reservists) entering the war zone. Almost none were in anything resembling a complete uniform. They were red hats, purple hats, carried pretty plaid suitcases and plastic shopping bags. Weapons were apparently a matter of personal preference some carried Israeli Uzi machine guns, others American M-16's, others Russian Kalatchnikovs. Each would readily extol the virtue of his particular choice.

The IDF has plenty of discipline, but none of the spit and polish, "chicken", and saluting that I remember as a former private in the U.S. Army. Officers are selected on the basis of military and leadership ability only, not college degrees or age. Every officer has had at least one year as an enlisted man. Professors and scientists at the Universities and Research Institute are all reservists, and serve under men many, many years their junior. There is also none of the dehumanization that I and my friends in the service in the 50's felt was so characteristic of serving as a private in the U.S. Army. An IDF soldier is not a serial number following orders blindly, he has a very clear picture of his importance and role in both the tactical and strategic activities. Every man is a leader and a member of a team. He also knows that if his country is overrun, it will face the equivalent of the Nazi holocaust, if the blood lust at Rome and Athens Airports are any valid indicators.

Moti and his driver, Yaacov, met us at the plane in a scouting jeep equipped with vast quantities of food. We added "halvah" (a candy made from sesame seeds), chocolate, and a canteen of cognac to the larder. The latter was a mistake. Israeli young people rarely drink beer, wine, or liquor, but the countryside and the battlefields are littered with empty Coca-Cola bottles.

We took off in the jeep at once on a brand new road (built in two weeks) from the airport to the east coast of the Great Bitter Lake. The desert landscape was totally empty of civilians or villages, even of Bedouin camps. It was however, dotted with dozens of small temporary tent encampments, some real, some dummies, complete with wrecked tanks, trucks, and weapons carriers in position. No where were the permanent installations, which certainly must have existed, in view.

The 60 mph jeep drive itself was hair-raising. There was a steady stream of huge trucks bringing Russian-Egyptian, American — Israeli equipment from the west bank. These were mainly wrecked and burnt vehicles and tanks with some salvage value. We were constantly forced off the road by the barreling oncoming traffic of trucks with wide loads, such as the parts from the temporary Suez Canal bridges that were being dismantled.

At the lake it was a bad story. Heavy battles had raged there; and the devastation was appalling. Burnt out tanks, half tracks, and trucks were every where; and one could readily envision the Egyptian and Israeli boys that were literally cremated. I saw Russian tanks turned upside down, or with turrets totally blown off. It was impossible to step off the north-south road on the east side of the lake because of the extensive mine fields. This tragic, barren desert has been totally ruined, if it ever had any value, by the brutality of the Middle East wars. The Israelis had built massive concrete bunkers and outposts on the eastern bank (the Bar-Lev Line) and the bombing they underwent was merciless. It is difficult to describe the extent of the destruction and the rubble that remained of "impregnable" defense positions.

**CLASS  
ELECTIONS**  
Tues., Apr. 23  
10 a.m. - 4 p.m.  
Daniels Lounge

Tickets for  
J.P. Weekend  
will be sold in  
Daniels  
every day  
11 a.m. - 5 p.m.



# Relief Fund Drive

The result of last Friday's collection to help the victims of the Midwest Tornado, although not reaching our goal of \$500, had encouraging net of 952 contributors totalling up to \$429.94 and a significant amount of good old clothes.

On behalf of the victims, and the American Red Cross, we would like to express appreciation to all the generous contributors, and all that helped collecting, for they had a lot of patience, even with some of the unconcerned, hard headed whom we wish we will never have to make a relief fund for.

Special thanks to Diane Dix and Dean D. Reutlinger for all the cooperation and advice.

**NEWSPEAK**  
Tuesday, April 22, 1974 Vol. 2 No. 8

As the north end of the Great Bitter Lake we crossed the historic Baruch Bridge, the first bridge that General Sharon had thrown across the Suez Canal. Prior to crossing, military police inspected vehicles to be certain no women were coming into occupied Egypt. On the west bank, trucks and jeeps were stopped on both sides of the road, and the shutterbug soldiers were out in full force taking souvenir pictures. The military police were unable to keep the vehicles from parking, and contented themselves with keeping the road open.

It was surprising to see how narrow the canal actually is. One can literally throw a stone across. The east side of the canal is barren desert. The west side is beautiful, green palm trees and farms. At the start of the war, the Egyptians had blocked the irrigation ditches in the Ismailiya region, and the ditches dried out, turning vegetation yellow. However, recent rains had filled the ditches again, and the desert literally blossomed (where shells had not landed). Brilliant purple patches of algae spotted the water in the ditches.

The green belt of vegetation from Ismailiya to Suez is only one to two kilometers wide, and is the result of the irrigation. But this irrigation is both the life and the tragedy of the fellahin. The water is infested with bilharzia; and as a consequence, all life, vegetable, animal, and human, has the disease. Life expectancies are short, infant mortality high, and poverty of the natives is unspeakable. We did not see one civilian the entire day — all had left the war zone.

There are two roads paralleling the west side of the Bitter Lakes — one at a short distance to the west and one on the edge of the lakes themselves. We drove first on the former toward Ismailiya, then into the desert to the high bluffs overlooking both lakes. These were Egyptian observation posts built on solid stone. No trenches or foxholes were dug. Instead stones were piled to make one-man mini-fortresses for outposts.

(Con't. Pg. 2, Col. 3)

## Student Government Meeting

Thurs., Apr. 25

7:00 p.m.

Library Seminar Room

FACULTY APPOINTMENTS

will be made at this meeting.

Prof. Roadstrum,  
Have you asked your  
wife to J.P. yet?

Annie

# Help Security

Editorial:

WPI Security's position on campus has long been criticized and joked about. We feel it is finally time to clarify for all the role of Security.

It should be understood that WPI Security exist for the good of the WPI community. Security's job is to enforce the rules, not make them. We feel that all at WPI should develop a sense of cooperation with Security rather than an attitude of testing Security to see how well they operate.

Recently, Security has been kept unusually busy with thefts in the dorms and the closing of West Street, as well as the normal problems. Some people at WPI are showing a lack of respect towards other people's (including the school's) property and more generally are showing no consideration for the rules of the campus. We believe that if these people cannot live at WPI in an atmosphere of mutual respect, they should seek an atmosphere elsewhere where they can function with their present attitudes.

JMF

# Tornado Crusade

On Friday, the Friendly Tornado Project collected some \$450 and a substantial amount of clothing for the tornado victims in the Midwest. Having watched Khanh Tran trying to organize the project in Boynton last week (when he held still long enough), and then watching him working even harder to execute it on Friday, writing this comes very easily.

Meatball gave none of us very much chance to prove that "an American's blood is still better than that of a gook's" since no one I know of could have worked any harder or with more determination. Giving was suddenly very painless; his dedication to the project made me figure it was the least I could do to justify his efforts.

I can't lay this on too thick or no one will finish it, but if you want to find out what it is that makes someone stand head and shoulders above the crowd around him, go look up Meatball.

DAK

# Mortgaging an Education

High school seniors will be scurrying to the family mail box during the new few weeks checking to see what colleges have accepted them.

The initial good news and congratulations may turn sour, however, when the student and his family take out pencil, paper and calculator and try to figure how they can pay for a college education without placing a second mortgage on their house and ransoming each other from debtors' prison.

Costs of colleges and universities have been escalating steadily and there is no relief in sight. Some educators believe the coming year may see record increases in the per-student cost of higher education.

The time may be coming when we will have a new source for financing college.

A middle-class family that sends two children to private colleges may well spend as much on their education as they spent on their home. They wouldn't dream of paying for real estate out of savings and earnings over a four-year period. Instead, they would take out a mortgage and pay it off over a period of 20 to 30 years. Even a car is rarely bought for cash, though an auto costs no more than a year of college on the average.

The "mortgage" concept may soon be applied to higher education. Student loans already are designed to allow users to postpone part of the cost of their education and pay for it out of future earnings.

While modest-sized student loans have been used for a long time, it is likely that the escalating costs of educating a student will mean sizable student borrowing to supplement family savings and institutional aid as a third important source of the financing of higher education.

Three years ago, Duke University and Yale pioneered in privately financed tuition postponement plans. Other institutions, encouraged by the example and by seeing larger and larger portions of tuition increases going into financial aid, have explored a variety of alternatives.

Dr. John G. Kemeny, president of Dartmouth College and original proponent of the mortgage idea, feels the plan likely to have the greatest impact in the coming years is the Federally Insured Student Loan program. In this program the federal government does not serve as lender and therefore available funds are not limited by congressional action. Instead, the government serves to guarantee the loan and help out with the interest rate.

A student may borrow up to \$7,500 for undergraduate education and \$2,500 more if he also attends graduate school. All loans are written at a reasonable 7 per cent interest rate, with the federal government providing an interest supplement to the lenders (banks and colleges) to make the loans financially attractive.

Since the loans are guaranteed by the federal government, lending institutions assume little risk, although they must show evidence of due diligence in collecting the loans.

Under this program, a typical student might borrow \$1,000 to \$1,500 a year for each year of college or graduate school. Repayments do not begin until the student has completed his education and postponement is provided for military and other service assignments.

Thus, the student who borrows \$1,000 in each of six years will find himself with a total debt of \$6,000 rather than a debt significantly escalated by accumulated interest. With a 10-year repayment period provided by law, the student would pay about \$70 a month, an amount similar to what he may be paying for a second hand car.

In the future it is likely to be taken for granted that each student will have to carry a portion of the cost of his college education as an investment. If the past is a reliable guide for the higher earnings of college and university graduates, it is likely to be the best investment they ever made.

—Worcester Telegram Editorial  
March 29

## WPI BOOKSTORE MEMO

WPI Bookstore accepting applications for student employment ... primarily for the summer months and into coming academic year.

First consideration given to present freshmen who will be in area for summer and who wish to work during coming year ...

All other students welcome to apply in event of openings that may occur. Applications available 22 April thru 26 April.

We saw huge concrete Russian SAM III missile sites with underground storage bunkers and networks of tracks to launch pads. All were destroyed to a useless state. Trucks that were bringing SAM III missiles to the east bank were constantly being stopped by troops to take pictures sitting on the missiles.

The narrow green zone was dotted with destroyed houses. Anything in the path of the war suffered. A huge Egyptian Army Camp near Faid was in shambles. There was no industry to speak of — a primitive firebrick factory and a mineral water "factory". We stopped and photographed a destroyed truck in Faid in which a friend of Moti's was killed when it hit a land mine. Helmets and war souvenirs were everywhere, but, because of the heavy mining and booby-trapping in the area, it was impossible to step off the road to take them. I do not know how the poor fellahin will ever be able to return to this wretchedness they have inherited.

We headed west, again into bleak desert, toward kilometer 101. As on the east side, temporary Israeli tent camps dotted the desert. The major difference was that great fires were burning at these camps. Any material of potential military value was either being destroyed or transported to the east bank for the disengagement.

Gas began to run low, so we returned to Faid and gassed up from a captured Egyptian railroad tank car, then drove the road at the edge of the Bitter Lakes. The ships trapped in the middle since 1967 were clearly visible. The Suez Canal, of course, was closed since 1967, and as a consequence, there has been no flow in the lakes since then. The settings of the lakes is beautiful and colors range from bright blue to greens to red from algae growing in the lakes.

Delicately beautiful mosques and minarets are along the edge of the lake, and these were relatively and surprisingly undamaged. Also, in Faid is the celebrated British Army Cemetery from World War II. One Israeli soldier had found his father's grave, and decorated it. The graveyard is a mute testimony to the senseless and eternal warring in the region.

Returning to the east bank, we crossed the "permanent" bridge over the canal. Built on huge stones transported from the Negev, it looked like the highway to Tel Aviv. It will be a major engineering achievement for the Egyptians to remove these stones from the canal and to desilt the canal. The return road was the original road from the Canal to Bir Gifgafa, and again it was a frantic race of huge trucks transporting hard and soft military equipment. Since this was the old road, it was lined the entire way with wrecked trucks and tanks from 1967. Again, not a civilian in sight, and a desert so mined that it may never be useful.

Moti's camp is near bir Gifgafa, and is named OZ, which means "strength" in Hebrew. The soldiers toured us about, insisting we take pictures of their tanks and weapons carriers. The jeep was immediately taken the desert on a scouting mission. We were presented with the treasure of treasures for

# Al Weiss

souvenir hunters — the jealously guarded and rationed 105 mm Howitzer shells — great lamp bases to Beer Sheva via El Arish; and the driver made it a point to pick up as many hitchhiking soldiers as the truck could hold.

Maybe this all sounds like great fun. It was and was not. We saw the reality of needless death and devastation, of human young people destroyed and maimed, and of billions of dollars of capital equipment and homes and farms turned to debris.

There is a temporary military cemetery in Beer Sheva, where the dead are interred for one year before being transferred to a permanent grave. One of our Chemical Engineering Freshman was killed with three other soldiers at the start of the war. They were found in a tank just the week we made our trip and a common grave contains the bodies of the four indistinguishable kids. Attending the funeral services of the University students is one of the responsibilities of faculty in Israel.

As a final comment, I do want to mention the impact of the war on some of the functioning at the University of the Negev. School year opening was delayed two months since faculty and staff to age 18 were mobilized. Even then only a number of female students, the few men with non-military status, and soldiers on temporary leave were available for classes and research. Soldiers bring their machine guns to class, and this of course, has made me decide that I am safer not to give "pop" quizzes. The students who are still in the army are very concerned that, because of the length of their absence from the University, they may need another year to complete their education. The University is doing everything possible to prevent this, such as sending notes and lecturers to the students at the front and extending school thru summer vacation. The fact of the matter is that demobilization has been so slow that the soldiers' concerns are probably valid. The absence of the majority of the students in the Chemical Engineering Department here makes research progress an uphill fight. Even typing is now a problem, as our department secretary was just recalled to active duty. That is really Women's Lib.

## PRE-LAW CLUB presents

**GARY BLODGETT**  
former Tech student

currently at Suffolk U. Law School  
to talk about Law School  
and answer pertinent questions  
Thursday, April 25

SL 201

ALL PERSONS INVITED

Please let's have  
a good showing

Instructor: Gerald Madaus

## CAFETERIA HELP WANTED

for the last few weeks of school

See Frank Schlegel between 12 and 1 in the Cafeteria.

# Regis-WPI Degree

A student may earn two bachelor's degrees in five years at Regis College and Worcester Polytechnic Institute under a new co-operative program.

The schools have announced that students in the program may earn a bachelor of arts degree in any major at Regis and a bachelor of science degree in any major at WPI.

Regis is the third college to join the WPI cooperative program in the last six months. Holy Cross College was the first, followed by Elmira (N. Y.) College.

Dean of Undergraduate Studies William E. Grogan said that students from Regis and Elmira would be admissible at WPI after three years provided that they had a minimum of four courses in mathematics and five in sciences. Tuition would be paid to the liberal arts colleges for the first three years and to WPI for the later two years.

Dean Grogan said that the 3-2 Program is picking up momentum and he expects to announce shortly the affiliation of two more colleges with WPI.

The cooperative program has grown out of studies funded by a \$75,000 grant from the Andrew W. Mellon Foundation.

# WPI NEWSPEAK

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## STAFF THIS ISSUE

Paul Klinkman, Paula Fragassi, Anne Gagnon, Ed Pietrasciewicz

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WPI Newspeak Office  
Tel. 753-1411 Ext. 464

# IFC Corner

Worcester Polytechnic Institute  
Interfraternity Council

## Phi Sigma Kappa

lections were held at the April meeting of the Epsilon Chapter of Phi Sigma Kappa. Congratulations to the following new officers:

**PRESIDENT** — Robert Brennan  
**VICE-PRESIDENT** — Paul Houlihan  
**SECRETARY** — James Gado  
**TREASURER** — James 'C.M.' Lunney

**ASSISTANT RUSH CHAIRMEN** — Dan Rodrigues, Bill Cunningham

**INDUCTOR** — Gary Mezynski  
**ASSISTANT INDUCTORS** — Tony Antuono, Steve Coleman

**SENTINEL** — 'Poppa' Tom Corey  
**URGENT** — Jim 'Binky' Howe  
**CADEMIC CHAIRMAN** — B. F. Nyquist

**BUILDING COMMITTEE CHAIRMAN** — George 'Gork' Olear

special thanks to the past officers for the great job well done this year.

## Delta Sigma Tau

Nothing much has been going on here at Delta Sigma Tau except that JOHN YAMASHITA has been celebrating everynight taking SAKE upon being selected to attend the City University in London this upcoming Fall. We all wish John the best of luck and hope that he won't cause an international crisis over there. I don't really think that John will cause any trouble over there; besides, there isn't any Becker dorms to raid. Right John!

Meanwhile back at the ranch, in Ascani (New Fraternal Committee Chairman) doesn't know whether he's coming or going with this year's CHARIOT RACE. The minute the race is on then the next minute it is off... Poor Tim just doesn't know what to do now that he is in charge of the Chariot's

construction. Well Tim, for starters, St. Vincent's Hospital is NOT A BODY SHOP despite contrary belief!

A Dinner-Dance has been planned for Sunday of Junior Prom Weekend. This will give the Brothers and their dates a chance to relax to a nice meal as they end their long exciting weekend.

Well folks that's about it for this week's EPISODE of Delta Sigma Tau. So till next week, this is yours truly signing off!

Edward J. Smith  
Publicity Chairman

## Delta Sigma Tau

In my last written account of Delta Sigma Tau and its new officers, I had forgotten to mention a few people. For starters, I forgot to mention my own Big Brother. I tell you is that GRATITUDE or WHAT? John Kowalchuk III is our new HOUSE MANAGER and besides being my big Brother, he's also one of the nicest guys around. He is usually referred to as "Big John" around the house. John has a heart of Gold whenever it comes down to doing things for the House. And for that reason, Big John is justly qualified for his office as House Manager. The other person that I also ripped off out of the glory and fame of being in Newspeak is Robert Alan Hart. Bob is more commonly known as "Pass the Mayonnaise Please!" and he's our new STEWARD. He too has the fine qualifications for which he was appointed to his office.

Well now that I got that out of the way, let's get on to some new business. Believe it or not, Anna-Maria chickened out of the Annual D.S.T. Softball Game this year. I guess it's just as well anyway because we were LOSING TOO MANY BROTHERS there. It seems like these girls all have some type of magnet in their possession which attracts the famous Delta Sigma Tau fraternity

Pin. Right DORF & BYRON! And maybe you too Andren if you don't watch out.

With upcoming WPI Social Events such as: Junior Prom Weekend, Military Ball and Spree Day; Our Social Committee Chairman has been going CRAZY trying to fit some extra social activities in this D-term. Well if he does succeed in Brewing something up, you can bet that I'll be the first to let you know. That's about it for now, so till our next

# Faculty Pen

Union Now?

by Carl Clark

The following is an approximate verbal reconstruction written to give the "sense of a meeting" as I responded to it:

"Do you mean," said one professor with some astonishment of tone, "that the Administration could give two or three year contracts to selected untenured people, then after the others are gone and further reductions of faculty were to be made, could lay off tenured professors on the basis that the assistant professors had legal contracts and so could not contribute the reduction, whereas tenure was not a legal protection in these circumstances?"

"That's right," said Ms. Rose Claffey, Executive Secretary and Treasurer of the Massachusetts Federation of Teachers and Vice President of the American Federation of Teachers, speaking to some fifty faculty members in the Gordon Library Seminar Room from four to six p.m. on Thursday, April 4, 1974. At the invitation of a group of faculty members "who will be identified at the appropriate time" according to Bruce McQuarrie, Ms. Claffey had come to the Worcester Tech campus with Dr. Robert Neilson, previously a Professor at the University of Delaware and now publicizing the work of the Federation, and Dr. Paul Devlin, also of the Federation.

"Your rights of governance are fine traditions," said Dr. Neilson, "but they are given to you by the Board of Trustees, and they could be taken away from you tomorrow... There was a time when college presidents and deans were the top scholars. Now there concern is money, increasing productivity, teaching 'just about as well' with not 15 students per teacher but 45 or 200 or with television many more... The Management Consultant Firms, on high priced fees, are telling Administrations how to reduce faculty sizes by efficiency plans, by using more part time people, by slowing up the granting of tenure and contracting from the bottom of the pay scale... We think the answer is collective bargaining, under which the faculty rights are spelled out by contract and cannot be abrogated by independent action of the trustees..."

"But I protest this adversary image," said David Todd. "I agree that the private colleges are in trouble financially, and must before long get government money or be swamped out by the cheaper state colleges. We're all in this together, pulling together, not adversaries. Every professor here thinks of himself as employer as much as employee."

"I don't," said Carl Clark, feeling his loose head as the professors shifted nervously in their seats amid general laughter.

"No," said Ms. Claffey, "you're in it together until there's a problem, and then some of you are out. Collective bargaining means that the faculty would have a legal basis for insuring procedures, not a

## Fraternities:

- SAE — 53 Percent
- FIJI — 35 Percent
- ATO — 33 Percent

No freshmen were counted as giving for Fraternities.

## Dormitories:

- Daniels 3 — 42 Percent
- Morgan 2 — 39 Percent
- Riley 1 — 33 Percent

The above are the percentages of people giving blood belonging to the various designations. SAE is again unchallenged, and will begin their reign by receiving a new trophy (they retired the old one last year). Daniels Third will receive their beer on Spree Day (whenever that may be!!) Let us congratulate all who gave or tried to give — approximately 450 pints were donated.

article; keep your feet on the ground and keep reaching for the SKY!

It may be too late to help them now."

Paul Devlin spoke up about the help. Through collective bargaining, information is made available by the Administration that might have been held facts before Alternatives to reducing faculty are proposed. Long term plans are presented, to broaden faculty training and prepare for shifts in department sizes. Dr. Neilson noted that 18 per cent of the two and four year college and university professors, private and public, were now members of unions, in some 250 college locals, up from 12 per cent just last year.

"Am I correct in understanding that the provisions governing promotion and tenure would be worked out between the faculty and administration and might be the same as they are today?" asked Jerry Weiss. "We have our tenure and promotion committees. The Administration generally takes the faculty recommendations."

"That's right," said Dr. Neilson. "The bargaining agreement might be just the agreement you have now — but with the legal force of a contract."

"But what about the person who has not come up to terms (after teaching six years and at least three years at WPI.) before these committees?" asked Carl Clark. "Can the Administration (or the departments) terminate his or her career here with no other consideration by the faculty? Can the person who has taught for five years be laid off so the Administration can hire a younger person, or a part time person, and save a few thousand dollars?"

"Yes, they can," said Ms. Claffey, "unless you have procedures to deal with this. You are hired for one year, and when you get a terminal appointment (in March, saying the next year is your last at the college) you're not fired — you're just not rehired after that next year. Many people sign a letter of resignation in exchange for a letter of recommendation and quietly steal away. We can help with this, insuring negotiated procedures involving the faculty viewpoints."

Union, now? Should the faculty — and the students — have a greater say in this process?

(Footnote: the quotations are approximations, written from memory the evening after the meeting.)

## W.P.I. Social Committee

ORGANIZATIONAL MEETING FOR 1974-1975

April 24, Wednesday in the Wedge 7:00 p.m.

For anyone interested in the areas of: Security, Planning and Programming, Publicity, Tickets, Technical and Stage Management, Set-Up and Clean-Up, Coffee House, Spectrum, Cinematech.

All are invited who are interested.

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# Projects

Project Sponsored by Norton Company, Worcester — Develop basis for optimizing cost and quality of refractory mixtures related to the sizing of raw materials. 2-3 students (MA, ME, Materials) (See J. Mielinski in Project Center).

Project Sponsored by Wright Lines, Worcester — Develop Data and Computer Program to optimize costs and design concerning transient state heat transfer for storage containers for magnetic media. 2-4 students (ME, CM, CS) See J. Mielinski in Projects Center.

Part-time Engineering Job for Junior or Senior. Avco Thompson (Webster Square). \$3.50 per hour up to 30 hours per week. See J. J. Mielinski (Projects Center) for more information.

**SOPHOMORES OR JUNIORS —** Part-Time Employment leading to Summer Job. Operating Wire Drawing Machine including Engineering Studies, up to 30 hours per week during school, full time summer. \$3.50 hour. See J. Mielinski in Projects Center for more information.

## Three WPI Students Receive NSF Grant

Bill Penney, graduate student, Dick Perrault '75, and Bill Cunningham '77 have received \$12,000 from the National Science Foundation under the Student Originated Studies (SOS) program. The grant will be used to develop an Electrical Impedance Plethysmography Arterial Function Test.

THE SOS program is designed to encourage students to express in creative ways their concern for society and the environment. The program provides support for groups of 5 to 12 students who demonstrate ability to assume responsibility for their own educational development. The success of these nearly independent student efforts encourages college faculties to put increased emphasis upon student responsibility in the institutions' regular instructional programs.

Each project is conducted under the leadership of a student who serves as its director. Students, mainly undergraduates, devote full-time to the studies which last from 10-12 weeks. A stipend not exceeding \$80.00 per week is

awarded by NSF for each participant.

College students submitted 266 proposals to NSF requesting more than \$3.5 million for the 1974 projects. To help evaluate the proposals, NSF invited 11 college undergraduates, all of whom were student project directors during 1973, to serve along with some 40 university faculty members on review panels.

While a faculty advisor is associated with each student research group, NSF insists that the real initiative and responsibility rest with the students.

Bill Penney will be serving as the group's project director for this summer. Dr. Robert A. Peura will be the faculty advisor, while Dr. H. Brownell Wheeler, M.D., Chief of Surgery at St. Vincent Hospital and Chairman and Head of the Department of Surgery at University of Massachusetts Medical School will be the advisor at St. Vincent Hospital. Six additional students will be selected from the Consortium colleges before the research begins in early June.

## WPI Pub Poll

In February of this year, an opinion poll study of the WPI Pub was commissioned by the Board of Directors of the Pub to evaluate the usefulness of the Pub to WPI students. It was executed by the members of the Public Opinion Polling (POP) project as the first in a series of polls concerning issues relevant to the WPI community. This IQP is advised by R.V. Olson, Math Department, and R.O. Bjorklund, Economics Department. A sample of 99 students was drawn from the current undergraduate registration list, and we received 72 completed responses.

When asked about their drinking habits, approximately 60 per cent of those responding considered themselves occasional drinkers, about 20 per cent felt they were frequent drinkers, and an equal number of students considered themselves non-drinkers.

In response to the question of how often they went to the Pub and/or off-campus bars, about 45 per cent said they go to the Pub at least once a week, whereas approximately 40 per cent go to off-campus that often. Quite possibly, students appreciate the nearness and safety of the Pub.

In regards to cleanliness, close to 55 per cent were satisfied, but only about 10 per cent actually thought the Pub was clean. The rest of the students thought it needed a new broom.

Concerning the atmosphere of the Pub, about 50 per cent said they considered it relaxed, approximately 25 per cent considered the Pub a circus, and 25 per cent said it had no atmosphere at all or that it was like a morgue. This shows that although you cannot please everyone, the Pub has chosen an acceptable middle ground as far as the atmosphere is concerned.

Those polled were then asked who should be allowed to use the Pub. Less than 10 per cent wanted it restricted to Seniors, whereas the rest liked it the way it was or wanted it even less restricted.

When asked if they would like to see wine served at the Pub, 50 per cent said yes and only 10 per cent said no. They were also asked if they wanted hard drinks at the Pub, only 40 per cent said yes and 20 per cent said no. Even though 10 per cent more people would like to see wine served, 40 per cent stated that they didn't care either way. Complete results are available in SH 107.

Walter Hoskins, Mike Blaszcak, and Roger Weekly

## WPI's Juvenile Delinquency Program

W.P.I.'s Juvenile Delinquency Program

One of the most serious problems facing society today is the problem of juvenile delinquency. There is a definite need for programs to deal with this problem and through the efforts of several project groups such a program has been developed at WPI.

Interests in juvenile delinquency at WPI started back in December of 1972. A group of students got together with the intent to use engineering ideas to help the Juvenile Court System here in Worcester. The students formed three project groups each working independently in areas which they saw benefitting the court.

One group decided to study "the flow of information within the Worcester Juvenile Court System, with emphasis on the feasibility of using computers to enhance its effectiveness," and another group made a study of "informal adjustment in the Worcester Juvenile Court," with emphasis on developing a revised court system. The third of these groups became interested in the juveniles themselves and developing a theory on rehabilitating or motivating juvenile delinquents through a relationship experience. The Relationship Experience is the pursuing of a juvenile delinquent's interests by a Volunteer Probation Officer (VPO) and thereby developing a relationship between the V.P.O. and a juvenile delinquent enabling the volunteer to help the juvenile to adjust better to society.

The idea of Relationship-Experiences stimulated the interest of another project group in Juvenile Delinquency. This new group investigated, as their project, the "feasibility of establishing a program of Relationship-Experiences to aid Juvenile Delinquents." Their main efforts were in expanding the relationship-experience idea into a full working and lasting program at the Worcester Juvenile Court. In order for a program of this nature to function effectively a good number of volunteers would be needed to get the program underway. Recommendations of the project group included the development of a course at WPI to train students as volunteers in the program.

A new project group was then formed to develop such a course at WPI. With the help of the Worcester Juvenile Court and Y.O.U. Inc. such a course was developed and offered terms B and C of this

school year. (Y.O.U. Inc. is an agency connected with the court which trains Volunteer Probation officers and matches them with them with Juvenile Delinquents for a one-to-one relationship).

This course was offered for credit and as part of the requirement for an I.Q.P. in Juvenile Delinquency. The course met once a week for fourteen weeks. The lectures, basically, introduced the students to the workings of the Worcester Juvenile Court and developed in him an understanding of Juvenile Delinquents and the problems they have and ways to approach such problems in working with the delinquent. Lecturers from outside the Court included Senator John Conte, Massachusetts State Senator; Doug Baird, Director of Anker House; and Dr. Paul Gearson, Chandler St. Drug Center.

Seventeen WPI students took the course, fourteen of which have continued in doing their Interactive Projects in some area connected with Juvenile Delinquency. All fourteen are presently involved in a one-to-one relationship with Juvenile Delinquents and have been given the status of Volunteer Probation Officers of the Worcester Juvenile Court.

The I.Q.P. in Juvenile Delinquency has been structured in the following way:

One-sixth of a unit credit given for each of two, seven-week periods of the course.

One-third of a unit given for each term following the course where the student is involved in his relationship with a juvenile as well as doing research work into some area connected with Juvenile Delinquency.

Research areas which are presently being pursued by students who are doing their I.Q.P. through the Juvenile Delinquency Program are:

1. Development of a system of evaluation of the WPI Juvenile Delinquency Program which will measure the effectiveness of the program in relation to the benefits WPI students will get from it as well as the effects it has on the Juvenile Delinquent.

2. A study of individual cases of Juvenile Delinquency in an effort to find the causes behind delinquent behavior in Juveniles. By finding the causes perhaps ways of preventing delinquency may be suggested.

3. Anker House (half-way house) may be an effective form of treating Juvenile Delinquents in

Worcester, but the large amount of money involved per child might be more effectively used if put toward a different system. A project has been proposed which will investigate the effectiveness of Anker House as a treatment center in terms of expense involved in sustaining it.

4. A feasibility study of the implementation of a head Justice for the Juvenile Court System of Massachusetts has been started. Presently there are three Juvenile Courts in Massachusetts each with its own separate Judge. These Judges are not responsible to any one person. There is no uniform method of handling of juveniles suspected of a crime. It is the hope of this project group to propose a more equitable system of justice in the Juvenile Courts.

5. Gaining expertise in the interpretation and application of the Comprehensive Employment and Training Act of 1973, is an objective of another project group. It is hoped to present a model proposal to apply and possibly secure funds made available through this act for an organization similar to Anker House or any other juvenile rehabilitation center.

The Juvenile Delinquency program is presently open to interested students. Starting in Term A (1974-75 school year) the course will be offered on a one-sixth-unit per term basis (2-terms). Through the course you will be introduced to various areas of Juvenile Delinquency, trained in dealing with Juveniles and their problem through case studies and role playing, and exposed to the Worcester Juvenile Court System and its workings.

Those that take the course may continue as Volunteer Probation Officers and eventually complete an I.Q.P. in areas related to Juvenile Delinquency.

**Project Advisor:**  
Professor R. Hagglund (IQP Center) and Steve Page (IQP Center)

**Number of Students:**  
25

**Time Sequence:**  
Spread over four course active terms.

**Credit — IQP:**  
One-sixth, one-sixth, one-third, one-third.

**Background:**  
Interest in a societal problem and in becoming directly involved with it.

**For Further Information:**  
Come to Planning Day Tomorrow at the IQP Center 10:30-11:30.

Next year there will be many openings for Faculty Advisors in this area.

## A.S.M.E. Lecture

On Wednesday, April 17, the A.S.M.E. presented Mr. Everett Johnson of the Texaco Research Labs on the energy crisis. Mr. Johnson's talk covered the causes for the present shortages and cast some predictions on the outlook of the future.

In projecting figures for both supply and demand, Mr. Johnson pointed out that per capita consumption of energy has been rising for years, combined with the fact that populations have been increasing. But he pointed out that oil production can not be expected to increase much beyond its present levels, and that the country would have to turn to other sources of energy to fill the gap.

Mr. Johnson named five major factors inhibiting the supply of oil. The first is that domestic production of crude oil is down for the simple reason that proven reserves are becoming harder to find and it becomes harder, as time goes on, to draw oil from oil fields. Second, the import quotas that the government had on oil. Fifty-three percent of the world's proven oil reserves are in the Middle East, as

opposed to 5 percent in the United States.

Another factor named was the difficulty in finding adequate sites for refineries. This is dependent on the availability of crude oil, since presently refineries are not working to capacity for a lack of crude.

The delay on the Alaska pipeline was cited as another reason. When completed, the pipeline will be capable of supplying up to two million barrels of oil per day. Finally, Mr. Johnson pointed out the problems in leasing off-shore drilling sites, and that it would take three years after settlement of the problem for it to pay off in production.

Besides diminishing supply of oil, Mr. Johnson pointed out, several factors have greatly increased the demand. The first two were "cars." Both the number of cars on the road and the mileage per car per year have both been steadily increasing. Besides this are the government's emission standards, which Mr. Johnson called an "overkill" caused by an emotional rush to do something,

not based on technically accurate data.

Other causes for higher demand are restrictions on high sulfur fuel which rendered many coal reserves useless for consumption and added to the demand for No. 1 fuel oil. Another was price controls on natural gas, which discouraged exploration for new sources of something that wasn't noticed until demand started to exceed supply. The last demand on oil was the delay on nuclear power plants which has caused electric companies to continue burning oil for power.

Mr. Johnson offered little in the way of hope for immediate relief from the present situation. For possible sources of new energy he named shale oil (not too helpful, one ton of shale yields 18 to 20 gallons of crude today), hydro power, geothermal and solar power.

Mr. Johnson, as a representative of an oil company, met with the expected healthy criticism. But technological humanists and engineers, this school should carefully consider the truth of what he said.

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# classified

**FOR RENT** — 3 room apartment (furnished) at 150 West St. Garage at 7 Schussler Road. Rooms at 7 Schussler Road. Call Mrs. Smith at 757-7938 or 757-5349.

**FOR SALE** — 2 pr. speakers: Hegeman I, Olson SS303. Interested parties contact Rob, 755-1461 or E 07.

**WANTED** — 1 date for JP Weekend. You don't have to be in LOVE with me to ask me. I just want to have a chance to dress up and dance to a good band. Signed: Jan.

**THE OCCULT** — a film sponsored by the Christian Bible Fellowship. Thursday, April 25, 1974. 7:30 p.m. Janet Earle Room.

**ANYONE** interested in taking Mass Transfer (ES 3002) this summer, please sign up on the list posted on the bulletin board outside of the Chem-Chem Eng. Office.

**WANTED** — Students for Placement as IQP TEACHING INTERNS at Elementary School Levels K - 8. A number of WPI students can be accommodated in local schools to serve as teacher aids in the areas of SCIENCE, MATH, SOCIAL STUDIES, AND LANGUAGE ARTS (or combinations thereof). IMMEDIATE OPENINGS (or look into it for Terms A74-D75). Transportation required to suburban areas (e.g., Paxton, Holden). For more information, contact PROF. BERKA, GH106.

**FOR SALE:** 1972½ Alfa Romeo GTV 2030, Italian Racing Red, 2 Litre Engine, Fuel Injection, 5 speed - full Synchro, New Pirelli "70" series Steel Rad., Capacitive Discharge Ign., New Cassette Stereo System. Best offer over \$4000. 755-2933.

**UMPIRES NEEDED.** No experience necessary, \$5 per game. Must be in Worcester thru June. Call Dan at 753-3144 or leave name in Box 378.

# What's Up?



APRIL 23 - 30

Tues. 23  
**BASEBALL AIC.** Alumni Field. 3:00 p.m.  
**TRACK.** Coast Guard. SMU. (away) 3:00 p.m.  
**LIFE SCIENCE SEMINAR.** Dr. Tim Lyerla, Clark University. "Cell Differentiation and Cell Death in the Cement Gland of *Xenopus laevis*". Gordon Library Seminar Room. 4:00 p.m.  
**CHRISTIAN SCIENCE ORGANIZATION AT WPI.** Higgins Lab 1010, 6:30 p.m.  
**VOLUNTEER WEEK** (April 21-27) at Friendly House on 36 Wall St., Worcester, will include an open house on Monday, April 22 from 10:00 a.m. to 12:00 noon, and Wednesday, April 24 from 7:00 p.m. to 9:00 p.m. Please come see Friendly House at work and play.  
**EUGENIA ZUKERMAN, FLUTIST,** 8 p.m. Worcester Art Museum. Admission Free.  
**LECTURE**—recital by Rose Taylor — affiliate artist of Worcester County Music Association — Miriam Hall, 11:40 a.m. Anna Maria College. Wed. 24  
**PROJECT PLANNING DAY**  
**GOLF** — Amherst, U. Mass. Wachusett Golf Course. 1:00 p.m.  
**LECTURE** by Alex Tanous, Psychic-Exorcist, Foundress auditorium — 8 p.m. Topics: "Spirits" Anna Maria College  
**ANNUAL EXHIBIT AND SALE OF STUDENT ART** from April 24 - May. Hogan Campus Center, Room 403, Holy Cross.  
**NATIONAL VOLUNTEER WEEK, Open House, Mini-tours.** Worcester Art Museum. All day.  
**ROBERT KATZ SPEAKS,** "Who killed JFK?", Hogan Ballroom, 7:30 p.m. Holy Cross College.  
**"A SPRING CHORAL CONCERT"** featuring Wellesley Chamber Singers, WICN-FM, 7:00 p.m.  
 Thurs. 25  
**CHRISTIAN BIBLE FELLOWSHIP.** Janet Earle Room. 7:30 p.m.  
**DOROTHEA JOYCE CONCERT,** Hogan Ballroom, 8 p.m., Holy Cross College.  
 Thurs. 25  
**DR. MAHLON HOAGLAND,** speaks "Health Care and Biomedical Research", Hogan 519, 8 p.m. Holy Cross.  
 Fri. 26  
**GOLF.** Tufts, Clark (away) 1:00 p.m.  
**BASEBALL.** Trinity. (away) 3:00 p.m.  
**SPRING WEEKEND CONCERT.** "Kreskin the Great". Harrington Auditorium, 8:00 p.m. Tickets: WPI students, faculty & staff — \$2.50; public — \$3.00. Tickets may be purchased at the Student Affairs Office.  
 Sat. 27  
**COUNTRY FAIR.** Sponsored by the Faculty Wives and the Spring weekend Committee. Quadrangle. 11:00 a.m. - 4:00 p.m. Chariot races - 2:00 p.m. (In case of rain, the fair will be held in Alden).  
**ROCK CONCERT.** Aerosmith with Duke and the Drive's, 8 p.m. Fieldhouse, Holy Cross. \$3.50.  
**TRACK.** MIT. Home. 2:00 p.m.  
**TENNIS.** Coast Guard. (away) 2:00 p.m.  
**JUNIOR PROM.** "Frankie Vallie and the Four Seasons". Harrington Auditorium. 8:00 p.m. Tickets — \$2.50 per person. Faculty, staff cordially invited. Tickets may be purchased at the Student AFFAIRS OFFICE.  
 Sun. 28  
**MUSIC DEPARTMENT SPRING CONCERT** — Foundress Auditorium — 3 p.m. Open to public. No charge. Anna Maria College.  
 Tues. 30  
**ROTC DRILL PERIOD.** Alumni Field. 11:00 a.m.  
**GOLF.** Lowell Tech. Wachusett Golf Course. 1:00 p.m.  
**TENNIS.** Clark (away) 2:00 p.m.  
**BASEBALL.** Tufts. (away) 3:00 p.m.  
**ME COLLOQUIUM.** Dr. Edward Teller, Univ. of California. "Perspectives on Energy Production." Higgins Lab 109. 4:30 p.m.

From the ruins of Babylon to Main Street, USA, people are drawn by mystical voices calling from darkness.

Author Hal Lindsey leads a guided tour into the bizarre world of ...

## The OCCULT

Thursday, April 25  
7:30 p.m.

Janet Earle Room

Film sponsored by The Christian Bible Fellowship.

**MOVING TO BOSTON?** 2 bedroom apt. in Boston's Back Bay available in June. Unfurnished. Good Location. Call 434-8525 days or 353-1636 nights.

**WORKING IN OR NEAR** Hartford this summer? Would like to share an apartment and food expenses. Reply to Box 1104.

**APARTMENTS FOR RENT:** 43 Wachusett St. — 5 minutes walk from campus. 1st floor, 2 bdrm (4 people), \$225 a month. 2nd floor: 3 bedroom (4 people), \$260 a month. 3rd floor. 1 bedroom. \$140 a month (2 people). Furnished, utilities included. Call 798-0751 after 6 p.m.

**1 PAIR** 207 cm Lange SL skis, new, never mounted. \$100 or best offer. 1 pair 205 cm Fisher Superglass, new, never mounted — \$100 or best offer. Contact Bob Decker, Morgan 303 or Box 1275.

**FOR SALE:** 1500 sheets 8"X10" GAF high speed variable contrast photographic paper. \$20 per 500 sheet box. Call Greg, 757-8893.

**EE PROJECT** on Delta Modulation. Advisors: Moruzzi and Matthews. There are many facets to this project and project day is a good time to find them out. If interested please contact the above or Box 966 — Bob Hart.

**WANTED** — Roommates (2). 3 bedroom, 5½ room apartments, near Friendly's, Off Highland St. \$80 per month per person. Call 754-0274. Ask for Walter.

**DOLBY NOISE REDUCTION UNIT** for sale. TEAC AN-60. Reduces tape hiss by 90 percent (10 BB). 1 year old. Perfect, like new condition. Instructions, cables, calibration tapes included. Normally sells for (not list) \$90, I am asking \$65. Keith Silverman, E16, 756-6585.

**FREE PASSES** — at the Penthouse. Good on Wednesdays and Sundays. Also good for a free beer. Contact Larry Hayden, Box 979, or Walt Hoehn, Box 1020.

"WICN-FM is looking for volunteer help over the summer. If you are interested in working in radio as an engineer, classical announcer, rock announcer, etc., please come to our studios at 75 Grove St. on Tuesday, April 30, at 7:30 p.m. Everyone is welcome."

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Liverwurst	.90	1.10	Grilled Steak	1.15	1.35
Mixed Ham & Cheese	.80	.99	Steak & Peppers	1.25	1.45
Cooked Salami & Provolone	.95	.99	Steak & Cheese	1.25	1.45
Imported Ham & Cheese	1.05	1.25	Steak & Onions	1.25	1.45
Capicola	.95	1.15	Steak & Mushrooms	1.30	1.50
Capicola & Provolone	.99	1.20	Steak & Onions & Peppers Mushrooms	1.30	1.50
Genoa Salami	.95	1.15	Roast Beef	1.25	1.45
Genoa & Provolone	.99	1.20	Pastrami	1.15	1.35
Genoa & Imported Ham	.99	1.20	White Meat Sliced Turkey	1.15	1.35
Genoa-Ham-Provolone	1.10	1.30	Turkey-Lam Cheese	1.15	1.35
Tuna Salad	1.10	1.30	Hamburg	.99	1.20
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Don't Forget  
Saturday, April 27  
11:00 a.m. - 4:00 p.m.

## Country Fair

on The Quadrangle  
W.P.I. Campus

Entertainment for all — games, raffles, crafts of many types, beer and food served all day. Open to the public.



## How to succeed in getting rid of a hang-up without really trying (on your own)

Somehow I grew up with a driving desire to be a part of the crowd — accepted by the group. In fact the questions, "What will they think of me?", "Did I make a good enough impression?" were the determining factors in every decision I made, every person I allowed myself to be seen with in public, every word I said. To a lesser degree I also wanted to be good. I believed in God and cared about people, but these were only secondary to the need to be accepted and popular. When I was with the gang and they were doing something I knew was wrong, I either did it, too, or applauded them so they wouldn't label me a square. Later when I thought about it, I'd feel guilty but never let that stop me. And I wasn't popular anyway. So life was one hurt and frustration after the other with only superficial happiness in between. I tried not to worry so much about public opinion but with no luck.

Then I met a new bunch of people unlike any of the 'friends' I had. They seemed to have a real handle on life and were always friendly to everyone, even the gang I hung around with, who were having a great time cutting them down. But my new friends didn't

mind. I wondered how they could stand for kindness and love regardless of what anybody said. I envied their courage, honesty, and real happiness. So I started to find out what made them tick. What they told me about was both hard to believe and fascinating. It really seemed impossible that just by believing that Jesus died to save me from my sins, that all my guilt would vanish. I also heard that I could actually have Jesus living in me if only I asked. Incredible! But if that was the truth, then what a fantastic way to live! I had seen plenty of evidence of the joy Christ had brought into my friends' lives, so one night I realized that Christ was the only way to happiness and I asked Him to come into my life.

Since then life hasn't been a bed of roses and my old longings are still around. But now, in the person of the Holy Spirit, I've got a powerful way to tell them to "Cool it". And though I still sin and often have a raging battle going on inside, I have the confidence that if I let the Holy Spirit call the shots, the Lord and I can win it.

Nancy Duncanson  
P.S. Thanks for reading.

## Worc. Colleges Establish Research Coordinator

WORCESTER, Mass. — Clark University, Holy Cross College and Worcester Polytechnic Institute have agreed to establish a "Tri-college Research Coordinator." A joint announcement today by the president of the three institutions named Dr. Edward N. Clarke, present Associate Dean of Faculty and Director of Research at WPI, as the Coordinator, and called attention to the benefits to be gained by a joint venture.

Dr. Clarke will assist faculty in seeking research funds from state and federal sources working closely with the appropriate administrative office of each university. It is hoped that the success of the first year's operation will lead to a permanent arrangement.

Dr. Clarke, who lives at 85 Richards Ave., Paxton, has been Associate Dean of Faculty and Director of Research at WPI since 1965. During that time, according to a WPI spokesman, he has worked closely with the faculty in planning and developing the program of sponsored research at WPI. Since 1965, WPI's sponsored programs have increased ten-fold.

Dr. Clarke, commenting on his appointment, said today, "Competition for federal funding has increased considerably. Increased effort and outstanding talent is now required in order to attract support."

He continued, "As national priorities have changed, it is important for more interdisciplinary research to be established in the colleges and universities. Complex problems cannot be solved by persons within a single discipline. Specialists in engineering, physical and biological science, and social science must join research applied to the needs of our modern society."

With Dr. Clarke's new assignment, the local universities involved hope to increase interdisciplinary efforts for the ultimate benefit of educational programs and of national and local community objectives.

Dr. Clarke is a graduate of Brown University, received two master's degrees at Harvard and earned his Ph.D. at Brown in Physics. Prior to coming to WPI, he had a 15-year career in industry in the semi-conductor field with Sylvania Electric Products, Bayside, N.Y., Sperry Rand Corp., Norwalk, Conn., and the National Semiconductor Corp., Danbury, Conn. He was a founder of the latter and served as a vice president for operations, and vice president for corporate development and diversification.

Worcester Polytechnic Institute  
Department of Chemistry  
DR. WILLIAM REIFF  
Northeastern University  
"Susceptibility and Mossbauer Studies of Ordering in Metal-Organic Ligand Systems"  
(Date Changed)  
THURSDAY, April 25, 4:15 p.m.  
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Refreshments Will Be Served

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CORRESPONDENCE COURSE

If you like pool you will love this course. It will work miracles for you. It is designed to teach you how to become an expert at this fascinating game. It will improve your game 200% or more. This course is designed for the beginner and the experienced players. It's designed for those of you who has a pool table and those who don't. The course is in eight (8) sessions all with illustrations and easy to follow instructions. The eight (8) sessions are selecting your cue, proper stance, stroke, straight in's, angles, rail shots, bank shots, how to use english, drawing a ball, how to break, patience, sportsmanship and much much more... To my knowledge there has never been a complete course offered in this ever growing fascinating game called pool. The complete course is yours for only \$24.95.

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Please send me \_\_\_\_\_ copies of BEHIND THE CUE BALL at \$24.95 each. I am interested in being a distributor in the \_\_\_\_\_ area. Please indicate the city, town, county or state. A representative of BEHIND THE CUE BALL will contact you within 15 days after we receive your order to explain how you as a distributor can increase your income and have fun while doing it, with no investment except for the course you purchase for yourself.

Three students from the Chicago area desperately need apartment in Worcester for the summer. Will rent or sublease. If you know of any place, PLEASE write:  
Rick Swamborg  
151 S. West Street  
Galesburg, IL 61401

## Rothemich Instructorship Created

A Distinguished Instructorship to honor the late Edmund F. Rothemich, chief service engineer of Riley Stoker Corp., has been founded at Worcester Polytechnic Institute by The Riley Company, the parent company.

It was announced Wed., March 13 in Alden Memorial Auditorium prior to the lecture series on "The Social Impact of Technology".

The first of two lectures, "Governmental Policy and Technological Change", was by Emilio Q. Daddario, a former Connecticut congressman and chairman of the House Subcommittee on Science and Technology, who is currently director of the Office of Technological Assessment.

Edmund F. Rothemich who lived at 48 Amherst St. was a graduate of WPI in 1934 and had been employed since then by Riley Stoker, serving for several years as manager of the Customer Service Dept. at 9 Neponset St. He died Oct. 10 on Route 290, Worcester Expressway, where the automobile he was driving was in collision with a stalled dump truck near the Burncoat Street ramp.

Howard C. Warren, chairman of The Riley Co., a graduate of Worcester Polytechnic Institute in 1942 and a trustee of WPI, announced the funding which established the Rothemich-Riley Distinguished Instructorship and provides for the chair for three years.

Richard J. Rutherford, board chairman of Riley Stoker, spoke of Mr. Rothemich's career at Riley and close relationship enjoyed by Riley and WPI, due partly to the service contributed by numerous alumni over the years. Present were Mr. Rothemich's widow, Mrs. Margaret Rothemich; a son, Robert E.; a daughter, Miss Joanne H. and a sister, Miss Anna B. Rothemich, all of Worcester.

President George W. Hazzard expressed gratitude of the college for the gift and presented Mrs. Rothemich with a citation read at the meeting.

He said that WPI had created the new faculty position to meet rapidly changing needs of today's education and particularly those of WPI's future as embodied in the WPI Plan.

The Distinguished Instructorship will be a term appointment, filled by a new occupant typically for three years, he said. The Distinguished Instructorship is designed to combine the prestige of an endowed professorial chair with the flexibility of a visiting lecturer.

Dr. Hazzard said it is anticipated that it will bring to WPI some of the best young minds and the best young teachers in the United States; open up a continuous influx of new ideas and new approaches to teaching to enrich the curriculum and the learning experience of the students; make it possible to fill current — and changing needs for special faculty expertise in certain faculty areas without freezing those positions into the permanent personnel structure; allow WPI to select from the constant flow of outstanding new people those whom the college would like to retain for permanent posts.

The post carries a stipend for research activities of interest to the candidate.

WPI is conducting a nationwide search for a recipient of its first Distinguished Instructorship.

## Clark Names New President

WORCESTER, Mass. — Dr. Mortimer H. Appley, dean of the graduate school and associate provost at the University of Massachusetts, has been elected the sixth president of Clark University.

The 52-year-old educator will take office July 1. He will replace Dr. Alan E. Guskin who has served as acting president since the resignation of Glenn W. Ferguson, June 30, 1973. Guskin will continue as acting president until his one-year appointment expires June 30.

Dr. Appley's appointment was announced by Mrs. Alice C. Higgins, chairman of Clark's Board of Trustees, following a special meeting of the board. His name was placed in nomination by Robert K. Massey, the trustee chairman of a nine-member Presidential Search Committee which has been screening and interviewing candidates for the past eight months.

## MILITARY BALL

Tickets to the Military Ball go on sale April 22nd to the student body and will be available in the MS Dept. Tickets cost \$5.00 per couple and are limited. Theme is "The Gatsby Era", dress semi-formal, rock music, wine and beer served. Military Ball will be held in Higgins Estate, 8:00 p.m., Friday, May 3rd.

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### THE CARDIOVASCULAR SYSTEM — A SEMINAR SERIES

Subject: Acoustic Activity of the Heart — Auscultation and Phonocardiography  
Guest Speaker: Dr. Michael D. Klein, Director of the Coronary Care Unit, Boston University Hospital and Affiliate Professor of Mechanical Engineering.  
When: Monday, April 29, 1974 at 4:00 p.m.  
Where: Higgins 101  
Extra: Demonstrations

# SPORTS HIGHLIGHTS

## Trackmen Drub Opponents

by Chris Keenan

The track team finished a very successful week, upping its record to 7-0 with victories over Worcester State, Clark University, Assumption, Norwich and Colby. The squad used well balanced scoring in all events to register these five team wins.

In the city meet on Tuesday, the engineers accumulated 101½ points to 59½ for Worcester, 16 for Assumption, and three for Clark. Bill Komm and Jeff Wnek highlighted the meet with record breaking performances. Komm's javelin toss of 210'6" eclipses the record of 204'6" he set a year ago. In the three mile, Jeff Wnek broke his existing record with an excellent 15:04.5 clocking. Bob Donle was the meet's only double winner posting victories in long jump and triple jump. Other winning performances were turned in by Alan Briggs in the mile, Orenstein in the high hurdles. Kurt Lutgens continued WPI's winning ways with a victory in the 440, while John Smith won the 100 and Chris Keenan in the 880.

On Saturday, the team traveled to Colby to participate in a triangular meet with Norwich University and Colby College. It proved to be WPI all the way as they captured 15 firsts out of 16 events. Due to poor track conditions, most of the events were run inside with the entire team turning in a fine performance. WPI had two double winners in the meet; Bill Komm won the hammer and javelin throws while Bob Donle took the long and triple-jumps. Jeff Wnek appeared to have broken the school record in the two mile with a 9:34.5 performance even though the meet was held indoors.

The team will compete against Coast Guard Academy, SMU, and MIT during the upcoming week. These meets will be a real test to the team's success this season. The meet this Saturday will be at home and the squad looks forward to your support.

The results of both meets are as follows:

**HAMMER THROW** — 1. Komm, WPI. 2. Brandell, WPI. 3. Healy, C. 133.5  
**JAVELIN** — 1. Komm, WPI. 2. Brandell, WPI. 3. Donle, WPI. 203.2  
**POLE VAULT** — 1. Paret, C. 2. Quigley, N. 3. Hart, C. 13.0  
**LONG JUMP** — 1. Donle, WPI. 2. Decker, C. 3. Sunderlin, WPI. 21.10 1/2  
**SHOT PUT** — 1. Lee, WPI. 2. Chabot, WPI. 3. Dunn, N. 45.4 4  
**TRIPLE JUMP** — 1. Donle, WPI. 2. Shultz, N. 3. McKenzie, WPI. 43.4  
**HIGH JUMP** — 1. Howe, WPI. 2. Christie, C. 3. McKenzie, WPI. 6-1  
**DISCUS** — 1. Sherer, WPI. 2. Baker, WPI. 3. Lee, WPI. 27.8  
**MILE** — 1. Briggs, WPI. 2. Prime, C. 3. Groothoff, C. 4:28.1  
**60 HIGH HURDLES** — 1. Fitzgerald, WPI. 2. Orenstein, WPI. 3. Wilson, N. :8.1  
**440** — 1. Lutgens, WPI. 2. Nygaard, WPI. 3. Christie, C. :51.4  
**60 DASH** — 1. Smith, WPI. 2. Hatch, WPI. 3. Tremblay, C. :6.8  
**880** — 1. Keenan, WPI. 2. Hallquist, WPI. 3. DeLande, C. :58.1  
**300** — 1. Weber, WPI. 2. Hatch, WPI. 3. Seleni, WPI. :34.5  
**2-MILE** — 1. Wnek, WPI. 2. Fkowler, WPI. 3. Cooper, C. 9:34.5  
**MILE RELAY** — 1. WPI (Keenan, Weber, Hallquist, Lutgens). 2. Colby. 3. Norwich. 3:31.9

**440 RELAY** won by us Time: 45.8  
**MILE** — 1. Briggs (WPI); 2. Bergen (WS); 3. Thomas (WS); 4. Kane (WPI). Time: 4:21.9  
**120-YARD HIGH HURDLES** — 1. Orenstein (WPI); 2. He between Fitzgerald (WPI) and Troy (WSC); 4. Slowinski (WPI). Time: 16.2  
**440** — 1. Lutgens (WPI); 2. Belmonte (WS); 3. Nygaard (WPI); 4. Boyle (A). Time: 50.4  
**100** — 1. Smith (WPI); 2. Hatch (WPI); 3. Bockus (WS); 4. Comeau (WS). Time: 10.2  
**880** — 1. Keenan (WPI); 2. Thomas (WS); 3. Hallquist (WPI); 4. Bergen (WS). Time: 1:57.5  
**440 INTERMEDIATE HURDLES** — 1. McKenzie (WPI); 2. Wnek (WPI); 3. Asmer (WS); 4. Wilford (WS). Time: 59.8  
**220** — 1. Bockus (WS); 2. Hatch (WPI); 3. Belmonte (WS); 4. Seleni (WPI). Time: 22.8  
**THREE MILE** — 1. Wnek (WPI); 2. Ferrari (C); 3. Johnson (WS); 4. Fowler (WPI). Time: 15:04.5  
**MILE RELAY** — 1. WPI; 2. WS; 3. A. Time: 3:27.8  
**LONG JUMP** — 1. Donle (WPI); 2. Troy (WS); 3. Varadian (WPI); 4. Fleming (A). Distance: 21-2 1/2  
**HIGH JUMP** — 1. Halten (A); 2. Jackson (WS); 3. Howe (WPI); 4. Troy (WS). Height: 6-3  
**POLE VAULT** — 1. Leclerc (A); 2. Pearson (WPI); 3. Fleming (A); 4. Yankum (WPI). Height: 13-6  
**TRIPLE JUMP** — 1. Donle (WPI); 2. Sunderlin (WPI); 3. Hennegan (WS); 4. Loosmore (WS). Distance: 44-6 1/2  
**SHOT PUT** — 1. Dupuis (WS); 2. Lee (WPI). Distance: 52-9 1/2  
**DISCUS** — 1. Dupuis (WS); 2. Sherer (WPI); 3. Baker (WPI); 4. Chabot (WPI). Distance: 144.5  
**JAVELIN** — 1. Komm (WPI); 2. Brandell (WPI); 3. Donle (WPI); 4. Hennegan (WS). Distance: 210-5

## Sports Banquets

In a recent meeting of the Athletic Council a new policy regarding sports banquets was agreed upon.



Kurt Lutgens, undefeated this year in the 440, on his way to another win.

## Freshman Basketball Tournament

RESULTS — WEEK TWO

Team	Wins	Losses	Total Pts.	Ave. Pts. Per Game
A — Morgan 4th	3	2	343	68.6
B — FIJI	0	5	196	39.2
C — KAP	2	3	228	45.6
D — Morgan 3rd	5	0	450	90.0
E — SAE	2	2	236	47.2
F — Wastos	0	5	096	19.2
G — Rovers	5	0	314	62.8

**NEXT WEEK'S SCHEDULE:**  
**MONDAY** — Morgan fourth vs. Riley Wastos; KAP Rookies vs. SAE  
**TUESDAY** — Morgan Third vs. Irish Rovers; FIJI vs. Riley Wastos  
**WEDNESDAY** — SAE vs. Irish Rovers  
All games are played in Harrington and start at 7:00 p.m.

The high costs of banquets has made it necessary to do away with the tri-annual affairs. Beginning with this year the council has instituted a form of break-up dinner in which each team is given two dollars per athlete. With the money the teams have put on dinners for themselves and on the whole the dinners have been quite successful.

This procedure has been fine for fall and winter sports but the spring sports present a problem. During the spring special awards are given to outstanding athletes and intramural winners. These people and teams are also entitled to public recognition. Because of this situation the council has decided to continue the break-up dinners for each term and in addition have a banquet for all senior athletes and award winners. This would include seniors from all sports along with the Intramural grand winner, championship team representatives and award winners.

## Crew Team Bows

by DONUT

Wesleyan took home the Davenport Cup Saturday after having won the Varsity and Jayvee events on the "lake".

The Regatta started out with the freshmen defeating their opponents, URI, in their third event, making them 2-1 so far in dual meets, having lost only to Trinity.

Next up were the jayvees. Having changed personnel since last week, the boat was running very well. Coach Ploss sent them out, anticipating a close race. The boat went well but, came up short as the jayvees were decisively overpowered and came through the 2,000 meters, 13 seconds behind Wesleyan.

With the WPI girls placing third in their event, next up was the varsity. Taking a length lead at the start, Wesleyan was unable to open up any more through the race. The Varsity gutted it out and with a strong sprint called by cox Jim Ferrais, came up a length short of victory.

With the city championships on the Lake this Wednesday and the Presidents Cup in Poughkeepsie next weekend, the crew is working hard in anticipation of the Dad Vails in Philadelphia.

The crew has the strength, but one thing it does lack is some support by the students at the school. Wednesday at 4:00, at the "lake".

## Tennis Team Drops Two

by PUGS

The WPI tennis team, showing vast inexperience under pressure, lost its first two matches last week. Matches with Assumption and Bentley, wins last year for the WPI netters, were both rained out. Holy Cross on Wednesday, and Babson on Saturday then beat out the Engineers by the same score, 9-0. Playing for the WPI Varsity are

Neil Poulin, Servio Tribaldos, Paul Houlihan, Rich Dachowski, Bill Johnson, Barry Siff, and Bob DeSourdis. Much more consistent play is needed if the squad is to have a winning season.

The JV team had its opener on Tuesday, and lost to Leicester Junior College, 7-2.

## Baseball Team Gains First Win

by CY

After having two games rained out last week, the WPI baseball team started their first season off with four games this week. Unfortunately, they got off on the wrong foot and lost their first three games to Lowell Tech, Bates and Hartford before coming back to defeat Union.

Pre-season fears held true to form as it was a combination of a shabby defense and weak offense that foiled the Engineers. The pitching was not as bad as the scores indicate and it looks like improvement will come there.

The first game was the worst as Lowell Tech won 9-2. Most of the Lowell runs were the result of errors in the WPI infield. The two runs WPI finally managed to score came late in the game and were the result of walks. The Engineers had only two hits the whole game.

The team showed improvement against Bates, but still came out on the short end of a 7-2 score. A couple of costly mental errors allowed Bates to get ahead and the WPI attack, which totalled six hits, could not overcome the deficit.

Saturday the team was at home again for two games. They met University of Hartford in the morning and lost 9-6 and defeated Union in the afternoon 8-6. Hartford rapped eleven hits in the game but WPI still could have won the game had they been able to execute on defense and make the right play. Jim Fountain started his second game and took his second loss. Jim Cullinane had three hits, including a home run, and Steve Kineavy two to lead the WPI offense.

The Union game was won by consistent hitting and good relief pitching. Cullinane, Kineavy and Bob Simon led the hitting barage. Cullinane had three more hits and another home run, Kineavy had two hits and Simon had a home run and a double for three rbi's. The defense was again poor and almost gave Union the game in the ninth inning. Freshman Paul Josephson picked up the win and has looked real impressive in three appearances.

The team has two more tough games coming up this week and must tighten its defense if they want to emerge victorious.

## Lacrosse Team Beats Lowell Tech

by Froggy

The Lacrosse team won its first game last Saturday 8-7. After being down 5-1, the team rallied to make it 5-5 at the half. In the first two games, the team had trouble in the first half; but Saturday they were outplayed for a few minutes and came back strong with an excellent defense. In the second half, the team went ahead for the first time this year on a goal by John Lord

which was his first of two goals on the afternoon. Lowell tied it up again at 6-6, then Lord scored his second goal for an outstanding performance.

Again Lowell came back and tied it up. With about six minutes left, John Lord leveled the goalie who was out of the crease and Warren Deshon picked up the ball and dropped it in for the winning goal.

The first midfield played a great game with Bob Fair scoring 3 goals and 2 assists, Tom Palumbo scored 2 goals and Joe Bukowski had 3 assists.

The team is playing so much better each game and is really getting it together. The next game is Tuesday at Mass. Maritime, which should be a close game and then Saturday at Vassar.

BATES	WPI
Cuth'n 2b 5 0 0 0	Bucci 2b 3 1 0 0
Lawenda lf 4 1 2 0	Cul'n'ne ss 4 0 0 0
Ham cf 5 1 1 1	Kineavy cf 3 1 2 0
Mur'y, K. 3b 1 1 1 0	Simon lf 4 0 1 0
DeL'Eario rf 1 0 0 0	McCormick 1b 4 0 1 0
Smith 3b 3 2 2 1	4 0 2 1
Murphy, K. 3b 1 1 1 0	Bucci, J. rf 3 0 0 0
	Klug c 3 0 0 0
Kutrubes dh 3 0 1 0	Graham ph 1 0 1 0
Franklin dh 3 0 1 0	Sick 3b 0 0 0 0
Dragan c 2 0 1 2	Cosimini 2b 2 0 0 0
Janigo 1b 4 0 1 1	Mattson ph 1 2 0 0
Ginsberg ss 4 0 0 0	Ships ph 1 0 0 0
Shubler p 0 0 0 0	Sunbera, P. 2 0 0 0
Sinclair p 0 0 0 0	Jos'n P. 1 0 0 0
	Braley p 1 0 0 0
Totals 36 7 11 5	Totals 33 2 4
Bates 029 005 020 — 7	WPI 100 001 000 — 2
WPI	100 001 000 — 2
E — Smith, Janigo, Bucci, D., Cullinane, DP — WPI 1, LOB — Bates 4, WPI 7.	
2b — Ham 3b — Smith, Graham	
SS — Cuthbertson, Lawenda, Smith, Murphy, Franklin, SF — Dragan.	
IP H R ER BB SO	
Shubler 6 4 2 0 2 4	
Sinclair 3 2 0 0 0 2	
Sunbera 5 2 2 2 2 0	
Josephson 4 9 5 0 1 1	

HARTFORD	WPI	UNION
LaRocque ss 5 0 1 0	D. Bucci 2b 5 1 1 0	Bucci 2b 4 1 0 0
Montlidas 2b 4 1 0 0	Cullinane ss 5 2 3 1	Cullinane ss 5 2 3 1
Palermo lf 4 1 0 0	Kineavy cf 3 1 2 1	Kineavy cf 5 1 2 0
Correale cf 3 4 2 0	Simon lf 3 1 1 1	Simon lf 3 2 2 3
Litke 1b 5 2 2 2	McCormick 1b 4 1 1 1	McCormick 1b 4 0 0 0
Haggert c 4 0 2 1	Mattson c 4 0 1 0	Klug c 3 0 1 0
Kilmas 3b 5 0 3 1	Sundberg dh 3 0 1 1	Bucci rf 4 0 1 0
Bradley dh 5 0 0 0	J. Bucci rf 2 0 0 0	Cosimini 3b 3 1 1 1
Finch rf 4 1 1 1	Heath'n rf 1 0 0 0	Hendrick p 1 0 0 0
Gardner p 0 0 0 0	Cosimini 2b 3 0 0 0	Josephson p 3 1 1 0
Levesque p 0 0 0 0	Ships ph 1 0 0 0	B'lowe rf 1 0 0 0
	Fountain p 0 0 0 0	Gould p 2 0 0 0
	Josephson p 0 0 0 0	Paley p 1 1 0 0
Totals 39 9 11 5	Totals 35 6 10 5	Totals 35 8 11 7
Hartford 021 031 101 — 9	WPI 100 004 100 — 4	Union 000 030 003 — 4
WPI	100 004 100 — 4	WPI 010 011 22x — 8
E — Haggert, Correale, DP — WPI.		E — Lega, Bucci, D. Josephson, Cullinane (6), Klug, McCormick (1), DP — Union 1, WPI 1, LOB — Union (11), WPI (28).
2b — Kilmas, Correale, Sundberg, Simon.		2b — Josephson, Simon, 3b — Miller, Gurik, HR — Cullinane, Simon, SB — Miller, Westbrook (2), Cullinane (3), Kineavy (1), Cosimini (2).
IP H R ER BB SO		IP H R ER BB SO
Gardner (W) 5 6 5 4 3 2		Hendrick 4 2 3 4 3 2 3 0
Levesque 3 4 1 1 0 3		Josephson (W) 4 1 3 2 2 0 5
Fountain (L) 2 1 3 8 5 4 2		Gould (L) 7 9 5 4 3 5
Josephson 2 1 3 1 1 1 1		Paley 1 2 3 3 1 1
WP — Gardner		

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## Dean Reutlinger Replies to Telegram Editorial

The Editor  
Worcester Telegram  
20 Franklin Street  
Worcester, MA 01608

Dear Sir,

Your Telegram editorial, "Mortgaging an Education" (March 29, 1974), must have brought bad, if realistic, news to many parents and college-bound students. The cost of college must seem prohibitive to more and more people. People who readily borrow money for houses and cars shy away from the thought of educational loans. They do so probably because the benefits of a house or car are clear and immediate, whereas the long-run benefits of a college education are not so clear in relation to the immediate cost of college.

There are, however, some recent studies estimating the lifetime income benefits for college graduates as opposed to the income of non-college goers. (Of course, a college education also yields many non-financial benefits.) A 1972 U.S. Census Bureau report on lifetime income and educational attainment shows the mean lifetime income of male high school graduates to be \$479,000, whereas the college graduates' mean lifetime income is \$711,000, and \$824,000 if he has had five or more years of higher education.

The difference between a high school and college graduate's earning power, a lifetime difference of \$232,000, agrees fairly closely with estimates cited by Myron H. Ross in *College and University Business* (January, 1974). He shows the value of the college degree over a 40-year working lifetime to be worth anywhere from \$213,000 (for a Sociology major) to \$342,000 (for a Mathematics major). Most other majors lie within this range. Averaged yearly over a 40-year working lifetime, this would be in excess of a \$5,000 annual earning difference between high school and college graduates.

The Carnegie Report, *Higher Education: Who Pays? Who Benefits? Who Should Pay?*, includes some more conservative estimates of this difference, citing studies that show an annual difference of 12.7 per cent and 14.5 per cent of the original cost of college. Those rates will show a very high return on the amount invested in a college education. Very few investments can approach the rate of annual return which a college education is likely to provide.

Investment in oneself, in one's own human and intellectual capitalization as it were, is surely a wise and prudent investment, even if that means borrowing part of the money. College-loan interest rates run much lower than the average rate of return each year after college graduation, and a college loan repayment usually covers only about one quarter of one's working lifetime.

Although borrowing always seems distasteful, borrowing to finance part of college costs is less costly and more beneficial than most people realize. A.G. Sidar, Jr., Executive Director of the College Scholarship Service of the CEEB, has projected that by 1980 student loans will finance 25 per cent of the costs of higher education in the United States. This form of self-help, the confidence a student places on his own future, has amounted to only 5 per cent in recent years. The future increase to 25 per cent assumes that parental contributions will remain, then as now, at about 55 per cent. College gifts and endowment income are projected at a constant of about 5 per cent. It is therefore ominous to note Sidar's projection that state and federal support, though growing in dollars, may decline as a proportion of the financing of higher education. Only by increased state and federal support for higher education can we decrease the need to borrow.

Sincerely,  
Donald P. Reutlinger  
Dean of Students

(See the Telegram editorial on page 2.)



# NEWSPEAK

This  
Week:

**Al Weiss Israel, page 1**  
**Dean Nourse Resigns, page 1**  
**Pub Poll Results, page 4**