



# The Tech News

Vol. 63

Worcester, Massachusetts

Tuesday, May 2, 1972

No. 10

## Muhlberger Presents Multimedia Cubism

**SUBJECT:** Richard C. Muhlberger's lecture on "Multimedia Cubism" as last offering in 1971-1972 Spectrum Program

**WRITER:** David Liben  
by David Liben

Richard C. Muhlberger is always a fascinating lecturer, and his two presentations on the history of art held the interest of the audience at least as well as the other SPECTRUM offerings, all of which included live performances. With a sense of novelty and wit, and not without some unusual approaches, he makes the details of art history of lively interest even to those scientists and engineers among us with only a passing interest in art.

In his earlier SPECTRUM presentation on "The Reclining Nude," Muhlberger invited along a young Worcester artist to sketch a model during the lecture (and auctioned off the drawing afterwards); in his April 24th presentation, "Multimedia Cubism," he arranged for the audience to more intimately experience the subject in another way.

Pointing out that invention, as opposed to creativity, is extremely rare in art, Muhlberger supported this premise by taking an historical view. Utilizing slides, he traced those few true artistic innovations Giotto's invention of humanity in art, Masaccio's discovery of perspective, and Caravaggio's innovative utilization of light and dark. These three artists, Muhlberger insisted, represent the only inventors, with one exception, in the history of art; most artists are content with borrowed techniques.

Then, with a quick glance at the French impressionists, Muhlberger moved on to the inventive artistic genius of our own age, Pablo Picasso. A little historical commentary was followed by a discussion of analytical and synthetic Cubism.

which culminated in Picasso's *Guernica*. Muhlberger's point: that by the invention of Cubism Picasso so broke through the barriers as to force us to see the several sides of the artist's subject.

But Muhlberger was not content to merely explain this innovation; he wished to involve his audience in it. Thus, while his audience listened to his lecture, they also saw him on videotape preparing for the lecture. There were a few sniggers from the audience when Muhlberger (on videotape) took his clothes off to do some push-ups, though the audience in general was quite appreciative and the lecture closed to a volley of applause.

The organizers of the SPECTRUM program are proud that Muhlberger's two presentations at Tech were responsible for greater co-operation between WPI and the Worcester Art Museum, where the unconventional lecturer directs all museum activities in the area of public education. Though this multimedia excursion into Cubism was the last of the SPECTRUM offerings this year, they will be back next year with an expanded program, funded by the Student Social Fee.



J.P. is off and running. For more pictures and a review, turn to page 4.

## Springfest Strikes Back!

"Contrary to popular belief, SPRINGFEST will happen at WPI this weekend. EVERYONE ON CAMPUS IS INVITED and I mean everyone. (Tom Everyone that is, he lives on campus). All entertainment is free and we won't even charge you to get in."

Humphrey Bogart (An Alias)

So that's it folks! We got the word from the top. The people who will bring you SPRINGFEST say it's really going to happen. We were a little worried there for a while. With interest rapidly fading and people giving up, well even I had my doubts. But fear no longer!! Neither rain, nor snow, nor sleet, nor shine will make us cancel it this time. If weather is bad (which is very likely) all outdoor activities will be held inside Harrington Auditorium.

The music Festival will include such noted rock bands (?) as INTEGRATED SOUND, CAT'S CRADLE, SAGE, OWLSLEY, SUNNY DOWN SNUFF, and many, many more. The groups start Friday May 5 from 4-8 p.m. and Saturday and Sunday from 11:30 a.m. to 6:30 p.m. Also among the notables will be the Worcester Community Orchestra and a Woodwind Quartet.

### DRAMA

Now for an inside view of the Drama festival we turn to Igor Patersnack, who at this very moment is hanging from the catwalk far above Alden's stage.

"Fantastic, did you see the way he put the knife in his back. And this was only a rehearsal."

Igor Patersnack (An Alias)

Dramafest begins on Friday night, May 5th at 8 p.m. There are three plays going on that night. One is from Assumption College, it's called "But What Have You Done Lately" and its by Myrana Lamb. Then there's "The Bald Soprano" by Eugene Ionesco. It was performed at the Massachusetts Drama Festival by Acton-Boxborough Regional High School, and won 3 of 18 acting awards spread over a field of 157 actors and actresses in 16 plays. And the last is "Measures Taken" by Bertolt Brecht. It is coming from University of Massachusetts in Boston.

On Saturday afternoon Dramafest will present "Inherit the Wind" done by Lynnfield High School then "Next" which H.A.M. will present. We have two plays from WPI — an excerpt from "A Streetcar Named Desire" done by the Drama Club, Masque, and a play written by Tech students, Frank Heitzler, Paul DeMayo, and Chris Yukna called "Sleaze" or "Furd Buffle's Variety Show". "Inherit the Wind" features two previous winners of acting awards in regional competition, and "Next" features a winner of an acting award from Massachusetts Drama Festival of two years ago.

Sunday, the plays to be presented are "The Caucasian Chalk Circle" by Bertolt Brecht and "The Waiting Room" presented by Leicester Junior College. "The Caucasian Chalk Circle" competed with "The Bald

Soprano" and received one acting award. It was done by Holliston High School. Also from Tech we have two presentations of "Lysistrata" on Saturday and Sunday nights. This is only a sampling of the talent that will be at Springfest May 5, 6, 7, so see you round like a doughnut.\*\*\*

### ART SHOW

Yes, there is an art show at Worcester Polytechnic Institute, amazing though it may seem. It is an attempt to bring people together. There are individual entries from Worcester Tech., Worcester State, the Art Museum, Anna Maria, Assumption, and many other people not associated with any institution. It will be held in the Gordon Library on May 5, 6, and 7 from 11 a.m. to 9 p.m.

### CONTESTS

One competition is SPRINGFEST FLAG CONTEST: the winner receives \$20.00 and the flag is flown on all three days of Springfest. The flags will be judged on design and originality. Just tote your masterpiece over to Gordon Library at W.P.I. on either May 3rd or 4th.

Saturday starts off with a touch of the absurd with "the most original SNOWMAN contest". Though with Worcester weather to consider, it may not be that absurd. There is a \$10.00 first prize and two \$5.00 runner-ups. To enter simply bring your snowman down to the Library by 11:30 a.m. Saturday, May 6th, and take your number. Winners will be judged by popular vote from 12 to 2 p.m. Saturday. All entries will be exhibited as long as they last. As far as ones snow or fake snow, I gather that's where the originality comes in.

A third contest is the Gala Model Boat Race. Just bring your boat to Institute Pond on Sunday, May 7 at 1 p.m. You can try to win in any nefarious way you can. The prizes will be \$10 to the motorized winner, \$10 to the sailboat winner and \$10 to the most unique boat that doesn't dissolve in the pollution.

## So You Want To Be An Engineer?

by Jon Anderson, Gary Golinik

Comprehensive exams mean many things to many people. To many non-plan students they represent something to be avoided at all costs. To some Plan students they may represent a pregraduation challenge. Still other plan students may conjure up pictures of a few dark days in the distant future. Anyone who still looks upon the plan as a sort of "easy-way-out" should definitely read on.

Because the distant days of the future are rapidly approaching — at least for a few — the Tech News thought the time appropriate to report on the present state of the "Comps."

The purpose of the comprehensive examination is to show that the student has met the "educational goals" of WPI; and to show it not only to the student and to the WPI community, but to the world! The student must "show his competence" in his major field, and be able to apply this competence to a given situation at a given time "just as he will be required to do after graduation."

The exam will consist of a written portion and an oral portion. A few of the comments of the Comprehensive Examination Study Committee, about questions on the written portion of the exam, are quite interesting: "In order to achieve our adopted GOAL, it is imperative that a student be able to master a new or unfamiliar situation;" "a question should involve interaction of fundamental concepts;" "while trivial problems are not appropriate, neither are problems of such sophistication that experienced professionals might find difficulty in their solution." The oral portion of the exam will probably deal with some aspects of the problems given in the written exam. It will test not only the student's depth (or shallowness) of knowledge, but will give the student an opportunity to demonstrate his ability to com-

municate with peers in his field. The Committee particularly emphasizes the integrated nature of the oral and written portions, stating: "The examination results should be evaluated as a whole, rather than as a sum of individual parts!"

Written exams will vary, according to the committee recommendations, from four hours to two days; the oral will be about 20-60 minutes. "The time period should be generous with respect to the magnitude of the task assigned."

Each department has its own particular problems with the exams. The Chemistry Department has prepared a tentative statement of guidelines for the exam: "The comprehensive examination in chemistry is envisaged to consist of two main parts, one of which will test the student's knowledge of the various areas of Chemistry, using specific questions, and the second of which will test his ability to use his general chemical knowledge and intuition to solve a reasonably complex problem." In Chemical Engineering, the problem of 'comps' is the least pressing. According to Department Chairman Dr. Kranich, there are no plan students graduating this year or next. There are currently three Plan students in the present sophomore class, however, who will be taking exams in another year. Kranich also stated that an attempt will be made to keep away from compartmentalization of material (i.e., thermodynamics, kinetics, etc.).

In the Electrical Engineering department, several students will take the exam next year, with ten students following up the next year. The E.E. Examinations committee has held seven meetings since January; at the April 5th faculty meeting, sample exam questions were presented by the committee (chaired by Dr. Moruzzi).

## Mass PIRG Referendum Soon

### Student Body to Vote on Mass PIRG East

In the upcoming Class Elections, the following referendum will appear on each ballot. If passed it will be subject to subsequent limitations as deemed necessary by the Bursar and by Student Government:

### Referendum

That the Massachusetts Public Interest Research Group (Mass PIRG East) be established at W.P.I.

— Mass PIRG East will be non-partisan, non-profit and student controlled.

— It shall be financed by an increase in Student fees of \$2.00 per student per semester.

— Any student who does not wish to participate shall be entitled to a full refund during the third week of each semester from an established public office on each campus.

WPI Students will be asked to vote yes or no on this referendum in a short time. Additional information regarding Mass PIRG East and its function and organization will be made available prior to the election date.

These questions must now be reviewed by the Electrical Engineering faculty. Dr. Richardson, Department Chairman, said that he is hopeful that sample test questions will be available for distribution to E.E.

majors before summer vacation. Dr. Richardson was also glad that there are a few upperclassmen on the plan to test the exams (on) so that they can be perfected



by Don Lavole

Historically governments have been the principal usurpers of individual liberties, from ancient Egypt, to feudal times, to fascism, to Communism. No power should be so suspect in the minds of freedom-loving individuals as that of Government. And the bigger it gets the more coercive it becomes. We should be very wary of allowing government to have direct influence in our lives. Where ever possible the civil authorities should not legislate positive-action rules onto the populace, that is, they can say don't do this or that, but they should avoid telling people what they should do. "Do not commit murder" is a just and necessary law for society. "All men at the age of 18 will register for the Draft, and if called will serve their country" is not. Society has some rights to tell its members what not to do but little justification for telling people what they should do. An exception to the rule is taxes, apparently a necessary evil, however due to their positive-action nature they should be minimized.

In the category of negative-action laws, these ought to exist only where there is a victim involved, i.e. compare rape with prostitution. The first involves a victim and thus consists of a direct infringement upon the freedoms of that person. The second simply involves two consenting adults neither of whose freedoms are relinquished as a result of the act. The first constitutes a real crime and should be (and is) illegal, while the second is a victimless crime, hurting no one's rights and so should be (but in every state except Nevada, isn't) legal.

The question of morality should not ever enter into the decisions of societal law. What's moral to me is deadly sin to some people, I'm sure. The only reasonable, realistic criterion must be this. Individual A does something; does this act result in an invasion of the rights of citizens B and C, or not? If yes, it should be outlawed. The question of Individual A hurting himself is in most cases very difficult to judge, after all who are we to say whether or not A would be happier if he were prevented from doing whatever it is he wants to do.

Specifically speaking, we should legalize marijuana, hitchhiking, gambling, prostitution, pornography, homosexual practices between consenting adults, for a few examples. I am, of course, by no stretch of the imagination advocating that people go out and do all these things. But it seems to me that Society as a whole has no justification for telling people that they can't do something which, however immoral it may seem to you personally, does not in fact diminish anybody's freedom.

Independent of the fact that Society shouldn't maintain laws against victimless crimes, is also the practical argument that these laws where they exist, in fact do little to prevent the "crimes" from occurring. Grass is smoked by millions, almost every college kid in the country hitches once in a while, prostitution survives as it has throughout man's history.

Presidential candidate Gus Hall (from the Communist Party) recently pledged that within 48 hours after his inaugural he will order "an end to racism" but executive decree. What makes this laughable is of course the simple fact that this kind of "law" is unenforceable (unless the government is willing to engage itself in some Orwellian form of thought control...perhaps not too farfetched in the case of Mr. Hall). People do not end their silly ideas because the Government tells them to, a person stops being a racist only when he comes to realize how utterly asinine he has been, this personal revelation being completely independent of executive decrees. The government can and should prevent racist acts which diminish human liberties, but the idea of putting an end to racism itself is either foolish in its reasoning, or dangerous in its implications.

The existence of morality laws in society concerning victim-less crimes can only do one of two things. (a) In the few cases where the law is strictly enforced, human freedom is shamefully forfeited. Witness the twenty and thirty year sentences for the — horror of horrors — smoking of a weed. (b) And where the law is grossly ignored, the basic dignity of the laws of our country, in the eyes of its citizens, is just as shamefully forfeited. Without respect for the law crime in its real and painful form thrives, chaos reigns...and freedom dies.

Let's give our law enforcers a break. Stop sending them after 'sinners' leaving that distinction to the One who knows better, and send them instead after the real criminals.

Editorial

Campus Clean-up

Now that the snow has finally melted, a whole winter's worth of little (and big) pieces of this and that have settled to the ground. Much of it is lying crammed into corners and under bushes, but a great deal of it is lying around in the open making some parts of the campus look like shit. Buildings and Grounds will eventually get it cleaned up but as they pick up one area — a part they have already done gets filled up again (especially after Saturday afternoon concerts on the Quad). It would seem that the school could save at least some wasted time by putting trash cans around the campus. Granted this wouldn't completely stop the trash build-up, but it would most likely cut into it a great deal. Some type of untippable cans would probably be best, but if they can't afford that, at least a few old oil drums with "Trash" painted on the side would be better than nothing.

M.M.

Third ROTC Weekend

by Ralph F. Miller  
Third ROTC Weekend  
A Freshman's Point  
of View

On the weekend of April 21, 60 brave freshmen once again rode the busses to Fort Devens. This time it wasn't more map reading or drill or range fire. There wasn't any barracks inspection or marching to the mess hall. This time it was the "real thing", field maneuvers and combat assaults. There were machine gun emplacements to take, squad tactics to learn, snipers to deal with, assaulting under fire, rushing, taking cover, rushing again, and even a small brush fire to fight. There were trucks to ride, helicopters to ride, and walks in the woods with rifles ready, during the day, at night and through the rain. Patrols came and went, firing was heard in the distance and then you were firing. The booming of artillery simulators was heard, the explosions of hand grenade simulators was heard, the

crackling of machine guns was heard and then it was all around you. Some came because their draft number was ten, others because they wanted to be officers. Some had long hair, others were not so long; some didn't think much of it, others thought it was fun despite the rain and wet tents. Some felt confident, others had a bit of fear; the fear of the unknown and the thought that it could have been real. There was some danger but all made it safely back.

The C-rations were strange to eat, the Army equipment strange to use, the total environment strange and foreign. You were instantly transformed from the Tech engineering student into the U.S. Army soldier, into a private first class, into riflemen and machine gunners filling squads and platoons and companies. You followed the orders of sophomores, juniors and seniors, veterans of previous field weekends. Now we are veterans of our first field weekend, ready to lead next year's freshmen through it.

LETTERS

To the Editor:

I noticed in your paper last week an advertisement from a term-paper factory. I can only assume that by accepting this kind of advertisement, you support this despicable form of plagiarism. Since it is within your power to rid this paper of this immoral (and, hopefully, in the future illegal) advertising, you should do so to retain your own moral dignity, and if you do not, it is the responsibility of the study body and faculty to demand that this form of advertising cease immediately. Furthermore, it should be formally announced that any student found using this or a similar service will be immediately expelled; and that any faculty member writing for such a service shall not have his contract renewed, or, if holding tenure, shall have violated the maintenance of morals clause in his tenure contract.

With the deepest disgust  
Robert Haywood, '73  
With the deepest disgust  
Robert Haywood, '73



Ed. Reply:

Most of the editors agree with you entirely and we will no longer run ads of this nature. We don't look at the ads that closely and perhaps we should begin to do so. Thank you for bringing it to our attention.

Editor, Tech News

I am a serious candidate for President of the U.S.A. Please give your readers a chance to write me. Thank you.

John J. Desmond Jr. 19491  
Cell 4A2

P.S. My Dad, now 81, graduated from Worcester Tech. (Maybe about 55 years ago). He is a good man. I want to prove that I am too.

cities all over the country. The main purpose of this rally was to convey to President Nixon that during his trip to Russia he should press the Russians to cease their persecution of the Jews. There were clergy from a number of different religions speaking and they urged everyone to support this cause.

by Robert Fried

EXODUS  
IS  
COMING  
TO WPI

JOURNALISM SEMINAR  
"How to Make-up a Newspaper"  
by Alan Dion (former Tech News Editor)  
Thursday, May 4, 7 p.m.  
Tech News Office

WPI/ENGLAND  
Student Exchange  
Applications Due  
May 12  
See:  
Prof. Schachterle,  
English SL 303,  
for details

AN OPEN HEARING ON  
"New Directions for  
Graduate Education at WPI"  
(Report of the Graduate Planning  
Committee)  
Committee on Graduate  
Study and Research  
THURSDAY, MAY 4, 1972  
7:30 p.m.  
SEMINAR ROOM,  
Gordon Memorial Library  
Topic for Discussion:  
Can WPI award graduate degrees on  
the basis of level of achievement rather  
than accumulation of credits?  
The outcome of this hearing could  
affect the education of all WPI students,  
especially those planning for graduate  
education. Attend the hearing prepared  
to influence WPI planning.

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NORA BLUM  
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There will be a meeting for all those interested in working for the coffeehouse next year. Thursday 8:00 Daniels Commons — basement of Riley. If you can't be there contact Chef in Stoddard C 203.

Jewry Rally

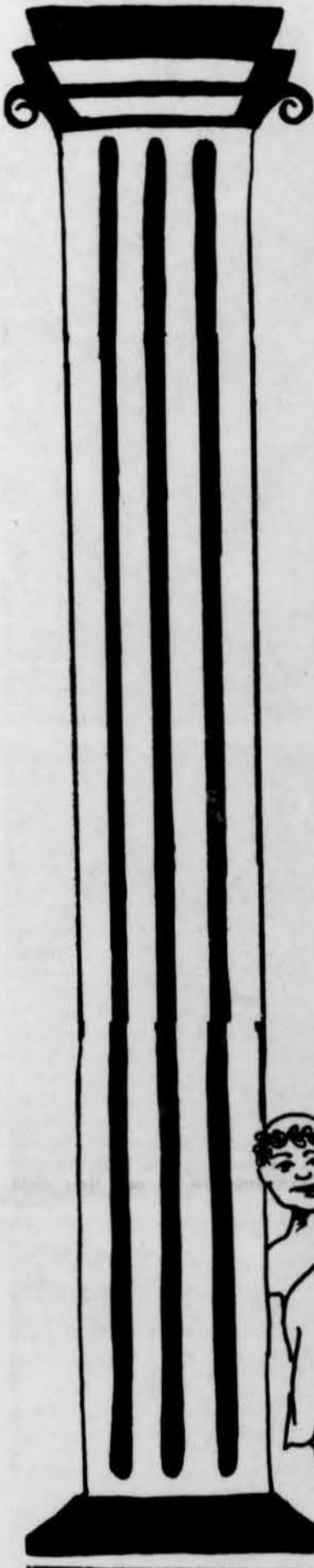
A large number of people from all over Worcester, including a few from Tech, gathered at Worcester Common last Sunday (April 30) at about noon to appeal by prayer in support of Soviet Jewry. This day was known as Solidarity Day, and was observed in over a hundred

Jewish Students

This Friday Evening, services will be held at the Collegiate Religious Center, 19 Schussler Road, at 7:30 p.m. The services will be followed by refreshments and a social hour. We expect several female guests, so please be sure to attend. Thank you.

Sponsored by JLC.

— WPI —  
Student Government Meeting!  
Date: Wednesday, May 3, 1972  
Place: Daniel's Lounge  
Time: 7:00 p.m.  
AGENDA:  
• Proposals for Academic Committee  
• Student Court Elections  
• Procedure for Class Elections  
• Student Activities Board Budgets  
— Refreshments will be served —  
YOU ARE INVITED!!!



# GREEK

by Harry Kasparian

# CORNER

**ATO** — The house won first place for speed in the J.P. Chariot race last Saturday, finishing with only three runners.

**LCA** — Would like to thank the freshman class for building the house's J.P. Chariot. Last Thursday's student-faculty cocktail hour was a big success.

**PSK** — Won first place for design in the J.P. Chariot races.

**SPE** — Pledged three freshmen last week. They are Mike Sundberg, Robert Poxon, and Nick Martino.

**OX** — Defeated SPE in IM Softball Saturday by a score of 13-12.

**SP** — The house is participating in a drive for the American Cancer Society. There is a party Saturday nite.

**DST** — The brothers of DST thank all of you who attended our "Summer Warmup" in Alden. The turnout was much larger than we had expected. Congrats go to Gary Rand ('72) who will be with Raytheon's Reliability and Maintainability Division this Fall. Walt Smith ('72) will be finishing up his term at summer camp and will be commissioned as an Ensign in the USNR.

**IFC** — The 16-page Summer Rush booklet with a picture of each house in it, has been completed. The IFC is also applying for membership into the Student Activities Board.

**SAE** — Softball  
5/1 DST  
5/5 AUSA  
5/8 MGQ  
Beat PKT 13-10  
Car Rallye May 13

**AEP** — Happy Hour next Sunday at 7:30 p.m. May 7.

## Frat. Chariot Winners



S.P.E., Winner of best design and quickest speed.



A.T.O. Winner of the best design for speed.



P.S.K. Winner of the best design award.

## Mass PIRG East

The long-ignored social problems of the '60's and '70's gave rise to a new kind of organization: the citizens' public interest group. The move to give voice and power to the public interest is based upon the belief that long-range interests of the average citizen will continue to be neglected by decision-makers until:

- 1) Private economic decisions which have an impact on public welfare are thoroughly studied and discussed;
- 2) Government policy takes into consideration the views and needs of more groups in society; and
- 3) new methods are developed to insure consideration of the public interest in private economic decisions and government policy.

The Mass PIRG East Group is a cooperative state-wide effort of college students from public and private institutions to develop new methods and tools to deal with problems of consumer fraud, environmental protection, and corporate and governmental responsibility.

Recognizing that past student efforts to effect positive social change have suffered from diffusion and lack of direction, the Mass. PIRG East Group will provide a focus for the students to join in concerned action on problems which concern them.

The acceptance of Mass PIRG East by our student body will be sought by referendum in the upcoming Class Elections. Further information as to the function and organization of Mass PIRG East will be made available prior to the election date.

**FOR SALE** — Howard Electric Bass with case, nylon wound strings, \$55. Call Jon after 6 p.m. at 753-9162 or 757-9927 (AETP)

**FURNISHED APARTMENT:** 34 Dean St. 3 1/2 rooms. Kitchen, laundry facilities. All utilities included. \$210/month. June 1 to Sept. 1. 752-5298

**TICKETS** to Rome for sale — two student fare tickets to Rome from Boston on Al Italia Airlines, available until Sept. 3. \$100 for each. Call 485-7835.

**STEREO COMPONENTS** — 80 watts Lafayette Amp LA-750 new — \$80. expect — \$65. Electrovoice 1150 stereo FM tuner new \$79. expect — \$45. Garrard SL55b turntable w/Pick V15/ACE-3 cart and dustcover new \$65 expect — \$45. whole package — \$135.90 MUST SELL!!! Contact Ken Kolbeck 798-3734 nights.

**FURNISHED apartment** for rent. June 1 — Sept. 1. 3 bedrooms, large kitchen, living room, all utilities, yard, driveway, 3 miles from Tech. Tel 452-6793.

**PART-TIME JOB** — Gordon Library, Technical Reports. DUTIES: Maintenance of the Library's microfiche collection; shelving and maintenance of the Tech. Repts. hardcopy collection; special projects in the Tech. Repts. and Reference Areas. Approx. 15 hrs/week. Prefer soph. or freshman. Apply now at Tech. Repts. Office to begin in June.

**THE OUTDOOR Sportsman's catalog** is now available on campus. Excellent quality camping merchandise is now available for less. Watch for the posted bulletins and see how you can save.

**FREE kittens**, real cute, call 754-1912.  
**FOR SALE** — novice amateur radio equipment (transmitter and receiver). Call Dave Bull at EAE 752-9667.

**FOR SALE** — stereo component system Milovac RA1000 — BSR turntable — AM/FM receiver. \$100 or best offer. Call 754-7452. Ask for Dave.

**FOR SALE** — 1967 Chevrolet SS306, 4 speed, hardtop, 4:88 positraction, Leaders chrome slotted wheels, good condition. Best offer. Call 835-3368.

**WE MUST learn to touch flesh, life, love, from the inside** — recognizing them for what they really are, from Please Touch Edwin McMahon, Peter Campbell — There are people around you. Please love them. Please touch their lives with compassion — Al A.H.

**IT SEEMS as though something of DST's is always falling down lately.** During their party in Alden last Saturday night the rotating mirrored ball just missed me when it fell from the ceiling. Good luck with your new house, boys! Fraternally, W. Stratton  
**INTERESTED** in joining the American Kitefliers Association? Contact Bob Williams, W-Box or Morgan Dining Hall.  
**WANTED:** — used typewriters; must be workable or in repairable condition. Contact Doc in SB-183.

**SATURDAY, May 6 is Willie Mays' Birthday.**  
**FOR SALE** — DOD surplus; electrical test set manufactured by Hallcrafters. Includes 3AC voltmeters, 0-150VAC, 3 AC ammeters, 0-20 amps, 1 DC voltmeter, 0-50VDC, 1 DC ammeter, 0-20 amps, used for monitoring of power supplies. With aluminum carrying case \$150 or best offer. Rm. 333, Morgan Hall.

## Free Classifieds

# "A Comical Weekend"

by Lenny Redon

Junior Prom Weekend '72', a fun-filled weekend for all, is over and done. The stage has been torn down, the bottles and cans disposed of, and the morning mouths have gone away.

Friday night of the weekend featured a pleasant concert by Batdorf and Rodney and the Youngbloods. For once the crowd was a majority of Techies, possibly giving away the source of popularity of the Youngbloods. That is, the 19-25 group. Both groups being of the low-keyed variety, the concert followed in being nice but not over-exciting.

Batdorf and Rodney started the festivities with a pleasant hour set, that set the tone for the concert. Accompanied by a bassist and a drummer, the two performed things from their two albums as well as some new songs. The group wasn't overly tight but they were able to generate some excitement through some nice guitar passages. The crowd was very congenial and were able to appreciate the work of this pair.

The Youngbloods followed, bringing their down home sound to the spotlight. Starting with some songs from their latest album, they moved through a spectrum of songs that included rock and roll, and some of their old stand-bys like "Sunlight" and "You're Beautiful." Earthquake, their manager, as well as impromptu harp player, added some nice fills to help things along.

Things kept going until at about 12 the group did a well-deserved encore and the concert ended. I thought the concert was nice just because no matter what your musical taste may be, there was something there for you. As for excitement, there wasn't a heck of a lot, but it was nice for a change.



## COMPREHENSIVES Cont'd. from Pg. 1

before the present Freshman class takes them. The exam will probably be a mixture of types of knowledge; some parts will be "open-book" featuring open-ended questions with a variety of correct answers — some portions will be "closed-book."

Doctors Sondak, Sistaire, and Alpert comprise the comprehensive exam committee in Computer Science. Dr. Sondak stated that the committee's job is one of coordination and review. The actual exam questions will be made up by the faculty of the entire department. The members of the comprehensive exam committee will then assume hypothetical profiles and take the exams themselves before the first computer science students essay them next fall.

The Computer Science committee has collected many exams used by neighboring colleges. Dr. Sondak stated that, although not written yet, the exam will represent the WPI experience. Sondak also admitted that it is too early to tell exactly what the exam will look like, but chances are that it will be in two parts. One part will be broadly based to test general knowledge. Students will be required to answer only questions related to their computer science specialty, but may try others. The second part will probably be custom-made and feature in-depth questions. Guests from industry may be invited to contribute a problem or question similar to the ones the student will encounter when he enters the outside world. The idea, Sondak stated, is to test the student's broad-based knowledge and competence under the most favorable conditions for the student.

Several comprehensive exams will be given this year, probably in mid-May, in Civil Engineering.

Sample questions are not available as yet. Dr. Silva, Chairman of the Department, stated that the exams would probably include provision for an open library, but would not be take-home exams. Silva feared students would pull "all-nighters" to complete the exams if they were take-home. For several days, each student will work for approximately eight hours on the exam (per day). He will be given a new question each day. The Civil exam will probably include questions related to an understanding of people to ensure that WPI Civil Engineers have acquired the humanitarian concerns which the plan was designed to include.

Dr. Branche, chairman of the Mathematics department comprehensive exams committee, and member of the committee to integrate comprehensive exam philosophy among the departments, stated that the two math students on the Plan will probably take the comprehensive next fall between terms A and B. The Math department is in the process of preparing a sample exam. The actual exam to be used will probably be finished by the end of the summer.

Dr. Branche's guess, "and this is only a guess," is that the math exam will consist of some open book and some closed book questions. Probably the major portion of the exam will be open-book requiring math majors to employ their background and to read to answer their questions.

Dr. Branche also said that the philosophy of the comprehensive is all tied together with the spirit of the projects and the courses. In math, where project work will consist more of independent study than actual problem solving, the exam philosophy will probably reflect this difference.

Management Engineering, with only one student for next year, has not yet evolved an examination. Dr. Schwieger suggested that the student might help design his own exam, and that the exam would probably include "cases." A History department comprehensive, already given, is now being modified as a result of its test.

The Physics department has evolved a sample comprehensive in preparation for giving exams to its two Plan Juniors. The department's sophomores will also be "guinea pigs", as will all sophomores, to help perfect the examinations.

Some sort of information about comprehensives will thus be available from almost all departments before summer vacation. After the A-B term break next year, a very concrete picture of the exams should emerge.

We are now initializing plans for next year's Freshmen Directory. If you have any suggestions, opinions or new concepts that you think we might be able to use, drop in and talk to either: Kent Lang M-332 or Doc Corey SB-103.

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# THE FACULTY PEN



by Imre Zwiebel

In discussing WPI's financial plight, more and more members of the WPI community have been zeroing in on the so-called unfair competition we are facing from the State supported institutions of higher learning. It is being stipulated that if tuition charges were raised at the State Colleges and Universities, to better reflect the actual costs of education, the startling monetary gap between these schools and WPI would be narrowed and more students would be willing, and able, to attend WPI. Although it has been suggested, there seems to be little evidence to substantiate that any fraction of the money collected from the increased tuitions would be channeled to the coffers of the private schools.

I cannot help but feel that we are barking up the wrong tree, one that is contradictory to our avowed national heritage of public education. I cannot see why we should distinguish between elementary and secondary education on one hand and higher education on the other. I believe that we as a nation have assumed a moral and social obligation that all our citizens be able to avail themselves educational opportunities which are commensurate with their intellectual abilities and interests. Furthermore, we take pride in the fact that our nation is the land of opportunities. By setting obstacles, in the form of tuition increases, in the path of aspiring young people in an era when education is an essential prerequisite to almost any career, we are renegeing on our basic premise. We are countermanding the principles that helped us become a great nation, and we shall discriminate against the economically depressed segment of our society. Surely, some wealthy people are also being subsidized, but that is their privilege and right as being part of society.

I believe that the surest way to secure WPI's financial viability is to provide an excellent educational product, one that is highly sought after and is worth the money spent on tuition. If such an opportunity were available many people would be willing to pay more, much more, than we are now charging. (This is substantiated by the recently published college application data for 1972.) I think that with the WPI PLAN we are well on our way towards providing a unique product. By implementing the current objectives of the PLAN, and working on continual improvements, we can assure WPI's healthy future. This is the positive route; by advocating the establishment of obstacles to our competition we are attacking the problem in a negative way.

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# He Went To Worcester What? Or "Hilly At The Top"

It was cool for an October Day — the day the freshman and sophomore class met each other over Salisbury Pond. The rope was in position as the gun sounded. The winners were the sophomores and Hilly Paige, as a member of that class, had the added pleasure of not only having won the traditional rivalry but of having pulled his own brother across the pond. If Hilly wasn't competing in intramural sports or out stealing a street car he was working down at the fraternity. This was back in 1939 and today, 1972, Hilliard Paige is president of General Dynamics Corporation.

Before his election to the Board and Presidency of General Dynamics, Mr. Paige was Senior Vice President, Corporate Executive staff, at General Electric. He had spent almost his entire career with General Electric in a variety of key engineering and executive management positions. It is interesting to note that Hilly Paige had no intention of pursuing an engineering career upon graduation from WPI, instead he wanted to be an actuarial. Once involved with engineering he found that he got a "kick out of it" and of "developing something brand new."

Over a delicious dinner, Mr. Paige reflected on his feelings towards WPI and its objectives. One of the biggest and immediate objectives of WPI is the development and full implementation of the Plan. Mr. Paige feels that the applicable part of engineering is very important and that students should have some exposure to project work. He remembers building a "bench grinder" from scratch and this was an opportunity for the engineer to "dirty his fingernails." He feels it is this practical exposure that distinguishes WPI graduates, and that if the Plan follows this course, it couldn't help but produce better qualified engineers. There is a danger, however, and that is that too much emphasis will be put on project work. He feels that not only is application of knowledge important but also the development of the fundamentals of engineering. He believes that fundamentals are the important base on which to build and that anyone with a sound knowledge of these fundamentals will succeed in his field.

Alumni and corporations both have a responsibility to support WPI in its new endeavor. After all, it is the corporations that want "better engineers" and WPI has taken the initiative in meeting future needs of industry and society. Alumni in various corporations can help in two ways: They can see that the corporations they are working for, if they contribute to colleges, give WPI its fair share. Not only is money needed, but also equipment. Alumni should be aware of the school's needs so that when opportunities arise they might be able to contribute to WPI.

Alumni are more important than just constant monetary contributors, they should be used to supply feedback to WPI. It is the feedback from the real world that is important in preparing engineers. Mr. Paige feels that it is important to bring alumni back to campus through intersession and special courses. This would renew alumni interest and support for WPI. The various alumni clubs should take a more active part in recruitment of qualified students and should direct interested students towards WPI.

When asked about what role students should have in planning the curriculum, Mr. Paige said that they "might overdo it." Students should constantly question the curriculum and constantly challenge the faculty, but he feels it is difficult for a student to realize what is expected of him in the future. Therefore, curriculum changes should come about more



Mr. Hilliard Paige, recently elected to the board and Presidency of General Dynamics.

through feedback channels such as alumni. He feels that it is a good idea to have a student on the Board of Trustees. It would be a means of directly providing the student's viewpoint on various issues, but he also added that it is difficult to pick a student who would be able to contribute constructively.

Mr. Paige feels that the generation gap is a real one, that rapidly changing technology has brought it about. It is much harder today for a graduate to come into the industrial world and fit in. However, students on the whole are much smarter and better prepared academically than those in the past.

Sports and fraternities both play important roles at WPI. Mr. Paige thinks all sports are good and have an essential role in

developing the student. On being a fraternity man, he "thought it was great" and that if the fraternity system dies at WPI, the school "would lose a lot."

Joint obligations exist between the college and the community to develop a better environment. Both have something to offer and each should strive for "tolerance and understanding" towards one another. WPI, with its emphasis now on environmental problems can do much to improve the community. Participation in such events as the Clean-air Car Race accents the college's concern for the "close loop of environment." Publicity of such events is also important since it builds pride in the school and that is "the best to have."

The college has changed a lot, and has grown somewhat. Mr. Paige feels that WPI should remain a small school with that personal touch among its members. He believes that most of the rebelling done by students at the larger universities has been propagated by the impersonal environment that has been produced. It is quality, not quantity that is important.

About WPI going co-ed, Mr. Paige feels that it was "inevitable" and "why fight it." The minds of its people are one of a country's natural resources and should be cultivated. Females should have the opportunity to develop their minds and other countries such as Russia have long realized the potential of educating women to fill professional positions. In past years WPI has seen demonstrations and protests on campus, and to save it from the added fury of Wmen's Lib, the school had no choice.



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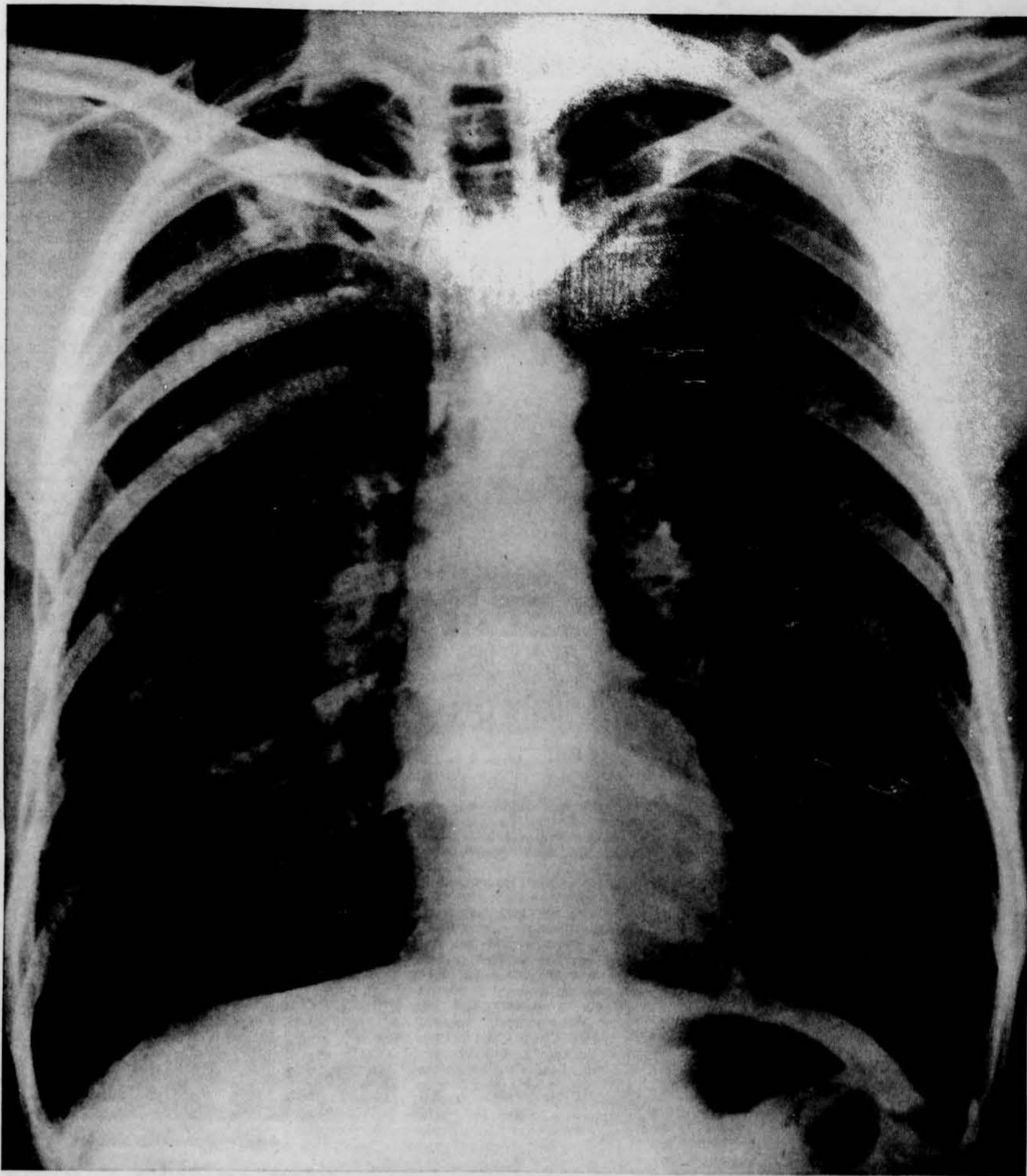
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## Baseball In Review

Coach McNulty finally got some solid pitching and hitting from his young team here Saturday morning. Alan Mikus' off-field double down the right field line scored Jim Fountain with the winning run in the bottom of the eleventh for Tech's first win. Jim Fountain came into the game in the 9th inning, relieving Dan Eide who started the game. Brandeis had just tied the game 3-3 in the 9th on a homerun by the pitcher. Tech collected nine hits (their most in one game this year) in recording their 4-3 win. This game marked the return of co-captain Steve Buba who had been out with a broken bone since before the season started. Maybe this will get the team going as Buba had 2 hits as did Wayne Pitts (2 rbi's) and Alan Mikus.

The team so far has played six games, losing the first five. Against M.I.T., they lost 4-3 in a good showing. Dan Eide started and was relieved after seven innings by Jim Fountain who gave up only 2 hits the rest of the game.



Coxswain Ciarlo gets dunk after big win over Cross.

Don Bucci had two hits, including a 2-run homer, and Freshman Fred Cordella had two hits also. In Tech's first home game, they lost 3-0 to Bates as they collected only two hits; one each by Don Bucci and Jim Buell. Co-captain Jim Keefe started and pitched well for seven innings before being relieved by Jim Fountain who again pitched very well.

In the next game against Hartford, the game was called after nine innings due to darkness and rain with the score tied 4-4. Tech had to come from behind to tie the game in the bottom of the seventh on a solo homerun by Jim Buell. Dan Eide pitched the whole game and did well in the cold weather. Alan Mikus had two rbi's as he continued to hit the ball good. Last Tuesday, Fountain started against A.I.C. and got rocked as he lost 5-2. The team's defense let down this game as it contributed a couple of runs to A.I.C. Once again, the hitting was poor as we got only six hits, two of which were by Fred Cordella. At Tufts, Tech rallied from a 4-0 deficit with a run in the seventh and two more in the eighth but couldn't push that tying run across and ended up losing 4-3. Mikus had two hits as did sub Dave Parmeter.

Thus far, Tech has shown a good defense but has been lacking in consistent pitching and hitting. Tech has given signs of coming out of their hitting woes in the last two games. Hopefully, they'll continue hitting against opponents in the upcoming games.

## Golf

W.P.I.'s golf team upped its record to 5-3 by beating Assumption. Clark and Tufts in a pair of tri-matches last week.

In the tri-matches against Assumption and Holy Cross, Jerry Taylor and co-captain Mike DeCollibus were both victorious against their opponents. Taylor was the medalist for the day firing a fine round of 73. Tech nipped Assumption, 4-3, but dropped a 5-2 decision to Holy Cross.

Against Clark and Tufts, the matches again were very closely contested. Three of the seven matches required extra holes to determine a winner. When it was over, Tech had triumphed over both teams, beating Clark 5-2 and edging Tufts, 4-3. Sophomore Jerry Taylor repeated as medalist on the strength of a 77.

With just seven matches remaining, Tech travels to Portland, Maine this week to play in the NEIGA tourney.

## UPCOMING SPORTS EVENTS...

- Tues., May 2**
  - Junior Varsity Golf, W.P.I. vs. Dean Jr., Away, 1:30 p.m.
  - Varsity Tennis, W.P.I. vs. Clark, Away, 2:00 p.m.
  - Junior Varsity Baseball, W.P.I. vs. Leicester Jr., Away, 3:30 p.m.
- Wed., May 3**
  - Varsity Track, W.P.I. vs. Tufts, Away, 3:00 p.m.
- Thurs., May 4**
  - Varsity Baseball, W.P.I. vs. Suffolk, Home, 3:30 p.m.
  - NEIGA Golf Tourney, Portland, Maine
- Sat., May 6**
  - Varsity Baseball, W.P.I. vs. Trinity (2), Away, 1:00 p.m.
  - Junior Varsity Tennis, W.P.I. vs. Worcester Academy, Away, 1:30 p.m.
  - Varsity Track, W.P.I. vs. Middlebury, Home, 2:00 p.m.
  - Rusty Callow Regatta, Lake Quinsigimond.
- Mon., May 8**
  - Junior Varsity Golf, W.P.I. vs. Leicester Jr., Away, 2:00 p.m.

## W.P.I. Wins City, Regains Crown!

Last Wednesday nite, the W.P.I. crew club regained its long-awaited city crown by defeating rival boats from Holy Cross, Assumption, and Clark. The oarsmen, led by stroke Ed D'Alba and lone senior Don Taft, seemed to be perked up for the contest against the opposing city teams. Taft, in particular, seemed to be anticipating the victory before the race as he and his mates prepared for the battle.

The race was nip-and-tuck most of the way. The Cross, Tech's closest challenger, began to charge with 500 meters to go. Coxswain Phil Ciarlo kept a steady head, however, and guided the heavyweights home, crossing the finish line a clear one and a half length victor. The time for Tech was 6:31.0 seconds.

The Engineers also captured the junior varsity eights event in a quick time of 6:50.0 seconds. Tech also won the Coxswained four man event, defeating defending champ, Worcester State for the second straight week. The lone boat unvictorious for the afternoon was the freshmen eight. They lost to a fast finishing HC frosh boat.

Last weekend, the team traveled to Poughkeepsie, New York to compete in the President's Cup. In the heavyweight eight class, the Engineers placed a respectable third behind unbeaten St. Joseph's College of Pennsylvania. The varsity four didn't fare so well as they were fourth in the five boat field.

This weekend, the annual Rusty Callows are scheduled to be held on the Lake. Tech hopes to fare well in this important regatta.

## Trackmen Triumph

Last Wednesday, W.P.I. split a double dual meet in New London, Conn. The Engineers defeated Amherst 90-60 and lost to Coast Guard 95-59. Winning performances were recorded by Andy Murch in the mile (4:19.6), Kurt Lutgens in the 440 (50.6), Robert Donle in the triple jump (42 feet 5 in.), Paul Varadian in the long jump (20 feet, 3-1/2 in.), Mark Dupuis in the discus (152 feet 8 in.) and the mile relay team in 3:32.5.

Saturday, the trackmen set two new W.P.I. records and tied another, but were unable to defeat a strong M.I.T. team. Andy Murch set a new record in the mile run with a fine time of 4:16.4 and Jim Weber changed his own record in the 440 intermediate hurdles to 56.3. The 440 relay team tied the school record of 43.8. Fine performances were also turned in by Tom Fieldson and Kurt Lutgens for first places. The final score was 90-64 in favor of M.I.T.

440 Relay — 1, WPI; 2, MIT; T. 43.8.  
 Mile — 1, Murch (W); 2, Kauffman (M); 3, Hill (M); T. 4:16.4.  
 120 High Hurdles — 1, Tronnier (M); 2, Evcs (W); 3, Fitzgerald (W); T. 14.5.  
 440 — 1, Lutgens (W); 2, Leimkuhler (M); 3, Corrao (W); T. 50.4.  
 100 — 1, Fieldson (W); 2, Wilkes (M); 3, Beckman (W); T. 10.3.  
 220 — 1, Wilkes (M); 2, Fieldson (W); 3, Leimkuhler (M); T. 21.8.  
 880 — 1, Hansen (M); 2, Kauffman (M); 3, Keenan (W); T. 1:59.6.  
 440 Intermediate Hurdles — 1, Weber (W); 2, Tronnier (M); 3, Francon (W); T. 56.3.  
 Two Mile — 1, Lewis (M); 2, Fowler (W); 3, Hoyt (W); T. 9:44.4.  
 Mile Relay — 1, WPI; 2, MIT; T. 3:29.4.  
 Long Jump — 1, Peck (M); 2, Donle (W); 3, Varadian (W); D. 20-8 1/2.  
 High Jump — 1, Peck (M); 2, Dunn (W); 3, Wilks (W); H. 6-0.  
 Pole Vault — 1, Wilson (M); 2, Windsor (W); 3, Bierwert (M); H. 14-0.  
 Triple Jump — 1, Peck (M); 2, Novobelski (M); 3, Varadian (W); D. 43-8.  
 Shot Put — 1, Moore (M); 2, Dupuis (W); 3, Lee (W); D. 91-6.  
 Discus — 1, Moore (M); 2, Dupuis (W); 3, Grasso (M); D. 153.2.  
 Javelin — 1, Charette (M); 2, Komm (W); 3, Tschyrowok (M); D. 202.3.  
 Hammer — 1, Moore (M); 2, Pearson (M); 3, Haag (M); D. 170-0.



Greg Dunne clears high jump bar

## Netmen Win, Lose.

Win a few, lose a few! On Friday, WPI's tennis team beat Assumption's 9-0. On Saturday, we lost to Coast Guard 1-8. So it goes. Andy White was again outstanding, winning his singles match in both contests. Against Coast Guard, no one else managed even to win a set. The inexperienced varsity made a good showing considering the experience of the Coast Guard team.

The Assumption match was just the opposite. The varsity lost only one singles set and two doubles sets in the entire match, despite the fact that Assumption had six matches under its belt to our two.

The 1-3 varsity goes against Clark on Tuesday, hoping to bring its record closer to .500. The 2-0 J.V.'s, idle this week, go against Worcester Academy on Saturday.

### A.S.C.E. MEETING Wednesday, May 3rd Kaven 207:30 p.m.

Guest: Dr. Armand Silva, Dept. Chairman  
 Topic: "Thoughts on Civil Engineering trends and Engineering in the Ocean Environment" illustrated talk on research activities.  
 Further information: Plans of the New Administration '72-'73, A.S.C.E. — Chi Epsilon Picnic, Red Sox Trip.  
 All interested freshman and new members are asked to come and get acquainted along with other members.

### SUMMER EMPLOYMENT NOTICE

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RJC