

Engineering Registration

Christian Wins First- WPI Snags Bid

Recently the Civil Engineering Department has been attempting to make students aware of the realities of engineering registration. The matter is of interest to much of the WPI community.

Like doctors and lawyers, independent engineers must be licensed in the state in which they practice. In this way the public health, safety and welfare are protected.

Registration is more important for some groups of engineers than for others. An engineer working for a large company does not necessarily need to be registered because a few members of the corporate staff are registered and assume responsibility for the projects. According to Dr. Silva, head of the Civil Engineering department, "Because many civil engineers operate private concerns or deal with problems directly related to public health, safety and welfare (roads, bridges, sewage treatment plants, buildings, dams, etc.), most civils become registered engineers."

The registration procedure usually consists of two parts: two exams and several years of engineering experience. The first (Engineer in Training) exam tests the basic fundamentals of engineering, math and science. "Usually civil engineering students take the exam during their senior year or soon after finishing college," Dr. Silva said.

The engineering experience must be at the professional level. "The Board of Registration is very meticulous about that," according to Dr. Silva. The State of Massachusetts, for example, requires eight years of professional level experience if the person has an unaccredited B.S. degree in engineering or related science. However, that time period may be shortened to four years if the applicant is a graduate from an accredited engineering curriculum.

A WPI Plan student may take any courses he desires. However, the Board of Registration need not accredit his college curriculum. Dr. Silva was especially concerned that WPI Plan students thoroughly understand this situation.

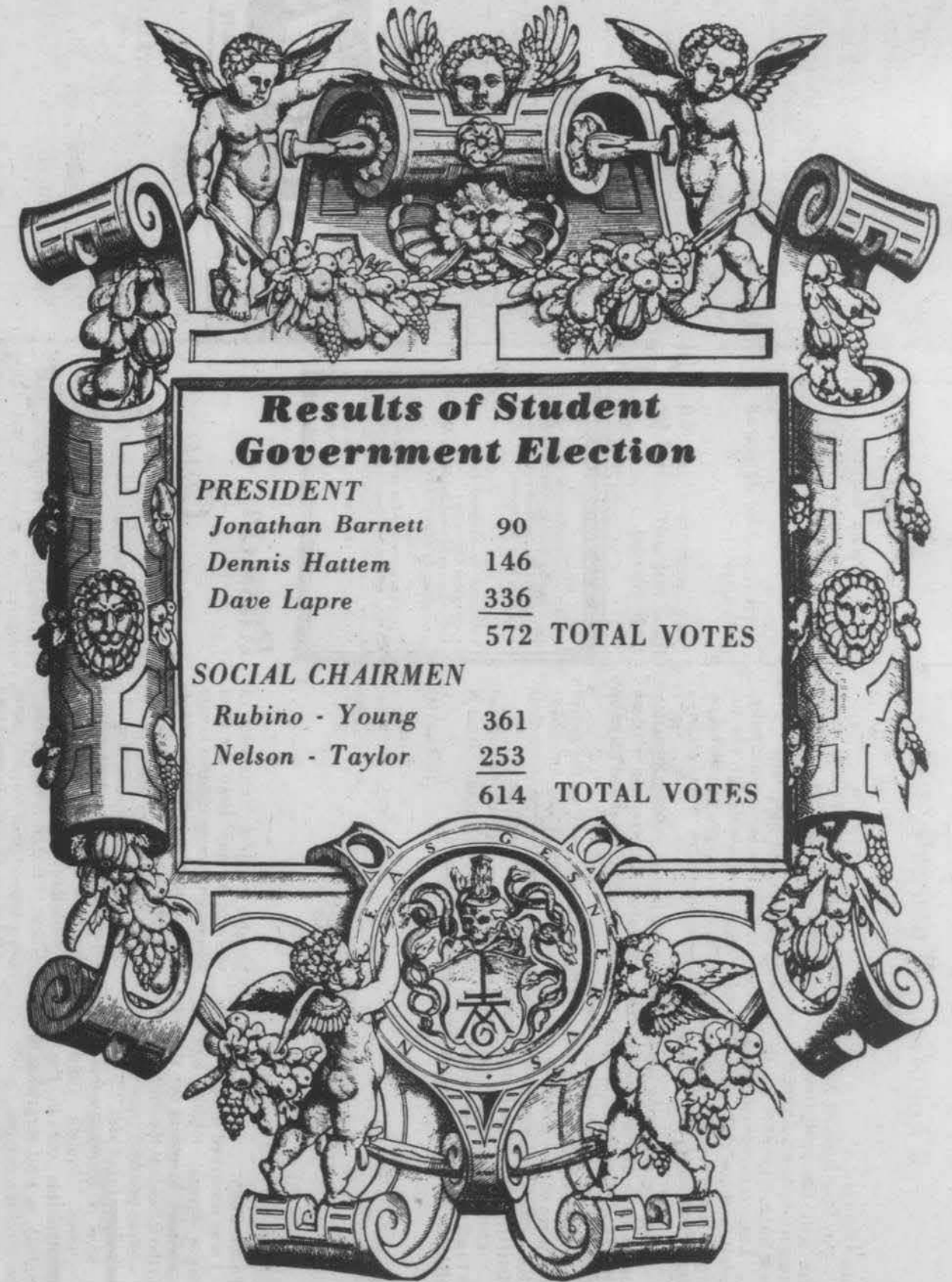
by Stephen C. Page

On April 26th, 27th and 28th, eleven WPI students presented papers at the 27th Annual Eastern College Science Conference. The conference was at Penn State, and included two days of talks, student paper presentations, luncheons, dinners and social activities. Over 200 people attended the conference from fifty-five colleges in the east.

Paul Christian, a senior Chemistry major from WPI, won first prize in the Chemistry division, one of five sections. He will receive a plaque and eventually a monetary award. Paul will be attending graduate school next year at Stanford University in California. He has been a WPI delegate to the Eastern College Science Conference for three years.

One of the highlights of this year's conference was the annual business meeting. At this meeting the site of the next conference was chosen. Although Penn State was anxious to host the conference again in 1974, open bids were accepted. Wayne Dyer and Joe Forand represented WPI and made a presentation to host the conference here next year. Due to their presentation, WPI was chosen as the site for the 1974 conference. This will probably bring over 300 people to campus next spring and will certainly expand WPI's reputation with many other schools.

The other WPI students who attended the conference and presented papers were D. Burkey, D. Gettner, J. Goulet, G. Izzi, R. Manes, S. Page, T. Szatkowski, S. Thibodeau, B. Webster and R. Whipple. Doctor Berka, who also attended the conference, commented that the WPI students made excellent presentations.



Results of Student Government Election

PRESIDENT	
<i>Jonathan Barnett</i>	90
<i>Dennis Hattem</i>	146
<i>Dave Lapre</i>	336
	572 TOTAL VOTES
SOCIAL CHAIRMEN	
<i>Rubino - Young</i>	361
<i>Nelson - Taylor</i>	253
	614 TOTAL VOTES

Ball Breaks Tradition

On Friday, April 27, more than 120 people attended the WPI ROTC Military Ball, held at the Higgins Estate. This year the Mil Ball Committee, headed by Tom Beckman, made three major changes in the format of the formal.

First, the setting was moved from the 'gymmy' confines of Alden Memorial to the cozier and more elegant Higgins Estate. Second was the acquisition of a rock combo, "Proof," to provide the music. Third was the availability of wine and beer at the ball itself. These efforts changed

the ball from a rather ho-hum affair into a real fun evening.

One tradition that was maintained was the crowning of the Queen and her Court. Crowned Queen was Melanie Nieber of Auburn, who was escorted by Larry Hayden. Chosen for the Court were Pat Graham, who was escorted by Bob Flanagan, and Sandy Reardon, who was escorted by Capt. Ron Osimo.

Most who attended the Military Ball said that it was 'indeed a Ball!' Veterans of previous Mil Balls here at WPI found this year's a great improvement over the ones previous.



Newspeak Letters

What About Watergate?

Dear Editors:

Pity Poor Richard. All his trusted friends caught red handed acting like, well, like politicians. Richard accepts responsibility. Richard promises to do his darndest to see that the guilty are punished. Richard asks God to Bless America. Richard will be more careful next time.

Learn to expect these things. When you build a colossal steam roller, call it the state, and rely on it to solve all your problems, don't be too amazed when it rolls over somebody. That's its function. Smooth out all those nasty lumps that don't want to cooperate with the 'Will of Society'.

People react to the scandal with shovelfuls of moral indignation. Damn Nixon. Damn the whole damn administration. Fine, but must we then let another bunch of Hunts and Liddys run our lives and play spy games on each other at our expense?

Can we simply substitute men of 'impeccable honesty' for the guilty? The state official possesses wondrous powers, is constantly exposed to those who expect special favors, bribes are tempting, the unscrupulous rise fastest in politics. In that environment I wouldn't trust a saint.

There is only one way to reduce big government corruption and that is to get rid of big government. Take away the power, eliminate favors of all kinds, cut the leviathan down to a size we can handle.

Don Lavoie

Winners of the 1973

Freshman Math Contest

are:

- 1st — David Garboczi
- 2nd — Douglas Adams
- 3rd — Douglas Knowles

Prizes will be delivered next week.

We wish to thank all those who participated for their interest.

Under Graduate Student Members of the following Faculty Committees will be appointed by the Student Government within the next few weeks.

- Committee on Academic Policy
- Curriculum Committee
- Committee on Student Academic Affairs
- Committee on Student Life

If you are interested in serving on any of these committees please contact Dave Lapre (Daniels 222, 753-1411 x 493) by Monday, May 14, 1973.

THE SOPHOMORE CLASS OF WORCESTER POLYTECHNIC INSTITUTE WILL PRESENT A

MARATHON FILM FESTIVAL

STARRING:

- ★ ★ Mae West "I'm No Angel"
- W. C. Fields ★
- ★ Rudy Valentino "Jazz Age Idol"
- Boris Karloff ★ "Frankenstein"

... and many more exciting stars!

FREE ADMISSION — Beer for 25c

ALDEN HALL - Friday, May 11, 1973

- 8 - 12 p.m.

Welfare

To the Editor:

I was dismayed to read in your pages several months ago the statement, by one of our students to the effect that the solution to the "welfare problem" was for people on welfare to get jobs. This reflects a level of ignorance that, while common enough and understandable out in the community, is a bit surprising to find on a college campus.

While I lay no claim to being an authority in the area of social problems, a few facts are easily available to even a naive chemist like myself. For instance, the majority of people on the welfare roles are children under 18. Two other large groups make up virtually all the rest — the elderly and the sick. It is a widely accepted proposition in our society that none of these people shall be permitted to starve.

A few months ago, as an experiment, over a two week period in the Boston area, all the recipients of welfare checks had to go to the Division of Employment Security and register for possible employment as a condition of getting the check. There were 4200 such people. Of these 2800 were immediately ruled as unemployable for various reasons. Of the 1400 others, after a great deal of effort a total of 17 were placed in jobs.

The fact is that any society has, at any one time, a small percent of the total population that is pretty helpless. Many are so ill, or of such feeble intelligence, that we keep them in state hospitals. Many are so totally lacking in skills, basically because of low intelligence, that while they can minister to their daily needs they are really unemployable — so they are maintained by welfare, which is a whole lot cheaper than keeping them in a hospital. There is a

sizeable group of alcohololics on welfare; a very large group of women with young children to care for and no breadwinner at home; and there are lots of elderly people whose life savings have proved inadequate for maintaining an adequate living standard without help from the community.

While the occasional dead-beat is content to loaf in a shabby room, being supported in Massachusetts, at the moment, to the tune of \$155 a month (and that includes a rent subsidy) plus medical expenses, one would hardly call such a person normal.

Another figure that drives home the level of penury at which welfare families exist: in Massachusetts today a family of four (2 adults and 2 children — and remember that very few welfare families have 2 parents on the scene) have to get along on about \$4000 a year (plus medical costs). This is not a level of prosperity that is likely to induce many people to abandon a good job in order to loaf at community expense.

It seems to me that the many resources of a college like WPI should enable our students to become far better informed on the welfare problem than are their parents. You really have an obligation to not only learn the facts yourselves but to carry the word back home. And here is an admirable subject for a few interactive projects — you can not only make yourselves better citizens but get academic credit at the same time. Why not look into the possibilities?

Sincerely,
David Todd

Russian

Courses

Dear Sir:

Tony Capuccio did a real service last week in presenting statistics on the emergence of Russian as the new second language of Science and Engineering. It takes a good engineer to research out the quantitative facts and prove what the rest of us feel.

Since World War II, the need to understand German has steadily decreased, partly due to a tendency of many Germans to publish technical papers in English to ensure a wide audience. However, the Soviet literature has blossomed, both in quantity and quality. It used to be that the Soviet technological literature was equivalent to reading the U.S. journals ten years previously. This is no longer the case. Their work is generally top quality. In my own area of catalysis, serious research cannot be done without keeping abreast of the Soviet activities.

I would like to endorse Tony's recommendation of the need to study Russian. It is becoming an important cultural factor in the technological society that is developing. Depending on translations has problems: they are usually prohibitively expensive and subject to excessive time delays.

Professor Dirilin of the Russian Department at Clark is a wonderfully gifted language teacher and indeed a very patient one. I know, since he is giving me lessons now. It is great fun to try to learn the language with him, and all of

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Stephen C. Page 753-1411 x 518	Editors in Chief	Gerard F. Petit 757-9308
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Copy Editor	Judy Nitsch	
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you that are interested should want Russian to continue to be taught in the Consortium and even on the WPI campus. By all means contact Tony Capuccio at 753-2252 and let him know if you would want to participate in a class.

Very truly yours,
Alvin H. Weiss, Professor
Chemical Engineering

SENIORS

1. Graduation Rehearsal is Tuesday, May 15 at 11:00 a.m. in Harrington.
2. Check your mailboxes for other commencement details.



Projects

It was probably inevitable, especially at WPI, that at least one project submitted for publication in the 1973 Projects Listing would get lost somewhere in the system. One entitled Soleri's Miniaturization, A Biological Principle? to be directed by Prof. William D. Hobey and others did disappear. A brief description is provided here for those students still seeking projects for next year.

Paolo Soleri's concept of arcology, the implosion of each urban complex into one megastructure with tremendous ecological and perhaps social benefits accompanying this implosion has attracted considerable interest among college students and the environmentally minded. (See the essay "In the Image of Man" in the June 1972 issue of Playboy.) Soleri justifies his approach in an evolutionary philosophy that contains the concept of "miniaturization." This concept has not been clearly defined, and is often ill-understood. As a principle of technology it represents the tendency of systems to get smaller as the demands for efficiency are increased. It is not at all apparent, as Soleri claims, that a similar mode operates in evolutionary biology. The purpose of the project is to see if the concept can be defined in a manner that is applicable to biology.

This project may be either interactive or major depending on the emphasis adopted by the student. In any case, the student should have some background in evolutionary theory and ecology. Anyone having a potential interest in this project is invited to talk with Prof. Hobey (Goddard Hall 204).

Project Rap

Still looking for a project for next year? The Project Rap represents an opportunity for you to discuss specific projects with an interested faculty member or student. The rap will be held this week in Salisbury 03S on Thursday, May 10, at 11 a.m. Prof. J. M. Boyd and John Ballint will be there to describe the project areas outlined below.

ID & ME Projects Prof. J.M. Boyd

Professor J. M. Boyd, Higgins 115, Extension 461, is interested in initiating during the next academic year a series of major area and interdisciplinary area qualifying projects. These projects are to be in the following general categories:

- A. Interdisciplinary
 - a. Technology assessment and monitoring. A study of the prediction of technological impacts on society.
 - b. Technology and public policy. A study of the decision making (political process) in the implementation of new technology.
 - c. Radical technology. A study and development of technology to serve the user rather than the political/economic system.
 - d. Prudent technology. A study of the possibility of the more prudent use of technology in our culture.
- B. Major technical projects in the areas of heat transfer, fluid mechanics, thermodynamics, and energy conversion.

If you are interested in exploring any of these project areas for the 1973-74 year, please contact Professor Boyd before the end of the school year or meet with him at the Project Rap. The basic prerequisite for interested

students is a general interest in reading: books, newspapers, magazines, etc.

"Dial-A-Bus" for Greater Worcester John Ballint

This is an interactive project which is multi-faceted, having environmental, economic, social behavior, traffic communications, computer technology and operations analysis as its major components.

Large numbers of our population today across the country are virtually immobilized. The young, the old, the poor and the handicapped are among those who cannot afford or are unable to drive for a variety of reasons. For these people, public transportation is difficult or inconvenient to use. Bus routes or other transit lines are too far away, transfers between lines are difficult or the transportation which is available does not go to their destination at all.

These people are the ones in our society that are dissatisfied with our public transportation system because they are the ones who are forced to rely on it due to a lack of access to a car. But what about our present car owners? How will they be affected in the years to come as gasoline prices continue to rise, as car operation becomes more expensive, and as congestion in our cities continues to increase? Is it not possible that some of these people would consider turning to mass transportation if such a system could be developed to meet their wide ranging needs?

In several metropolitan communities "Dial-A-Bus" demonstration projects are now in progress. These transportation projects attempt to cope with many of our problems of mobility by using small radio-dispatched mini-buses to provide door-to-door service for its passengers. The bus routes in this system are determined through the use of optimal real-time routing through either manual methods or through the use of a computer to assure the utmost in efficiency. This system is also demand activated — responding to requests for service and remaining immobile if there is no need. Could such a system be feasible for Worcester and the surrounding area in years to come?

One student has already begun work on the preliminary stages of this project, and more people are needed to help with it during terms

Commencement Speaker is An Explanation Announced

by Dave Hubbell

WORCESTER, Mass. — Dr. Glenn W. Ferguson, University of Connecticut president-elect, will speak at Worcester Polytechnic Institute's 105th commencement at 2 p.m. Saturday, June 2, in Harrington Auditorium.

A native of Syracuse, N.Y., President Ferguson was graduated from Cornell University with a bachelor's degree in economics, and received his master's degree in personnel administration there also.

He spent two years in the Air Force and saw service in Korea and the Philippines. He did graduate work at the University of Santo Tomas (Philippines), Georgetown University and University of Chicago before completing his law studies at University of Pittsburgh. During part of this period he was a staff associate, Governmental Affairs Institute, Washington, D.C. and assistant secretary-treasurer and assistant editor, American Judicare Society, Chicago.

While at the University of Pittsburgh, he was successively assistant to the chancellor, assistant dean, Graduate School of Public and International Affairs and associate director of the Coordinated Education Center.

After a short period as a management consultant with McKinsey and Company, Washington, D.C., President Ferguson became identified with government service over the next eight years. With the Peace Corps for three years, he was successively director in Thailand, associate director, and also special assistant to the director, in Washington.

From 1964 to 1966, he was director of VISTA (Volunteers in Service to America) and from 1966 to 1969, he served as American ambassador to Kenya.

Dr. Ferguson was chancellor at Long Island University (1969-70), prior to taking the Clark University presidency in 1970. He announced May 1 that he had accepted the U. Conn. presidency as of Sept. 1, 1973, on a full-time basis.

A, B, and C. To learn more about this real and practical problem, contact Prof. James Demetry or talk with John Ballint at the Project Rap.

With less than a month to go until graduation, it has become apparent that a number of seniors are upset over prospects concerning the June 2 commencement ceremony. While some seniors are opposed to the wearing of caps and gowns, we are having them for a simple reason — graduation is at least partially for the parents as well as the students. When it comes to the traditional ceremony, it undoubtedly means more to the parents. To eliminate the wearing of caps and gowns would be a rather harsh blow to a lot of parents — parents who have carried part, or all, of the college financial burden for the four years.

A number of other seniors are dissatisfied with the selection of the commencement speaker, and feel that little effort was put into this selection. This simply is not true. A group of seniors and faculty began meeting weekly around October to pick a Convocation and Commencement topic and speakers for each. Unfortunately we are from a small engineering school, and we tried for some rather big names, not in engineering circles. All speakers approached, except Baba Ram Dass who recently appeared on campus, either failed to reply or turned us down. Throughout the whole episode, the trustees were upset by some of our "irresponsible" choices for speakers, and the administration refused support for our version of an untitled convocation, saying that it seemed to be a "verbal strip tease" for the speakers. The discouragements piled on top of one another, and the administration finally took over when the graduation date drew closer.

On the other hand, there are two "improvements" in this year's ceremony. First, seniors will be going up alphabetically instead of by department, which should speed things considerably. Secondly, there will not be a speaker from the senior class to provide five or ten boring minutes.

In light of all that has been said, if you still don't like the way things will go, and you don't think that your parents will be hurt by your absence, then by all means don't come!

In any event, we would have appreciated your bitching earlier. It's a little late now!

In conclusion, I have included below a copy of a letter drafted by Dr. John M. Boyd, chairman of the Commencement Committee, on November 20, 1972. It summarizes some of our earlier attempts.

"TO: President Hazzard
FROM: A. Anderson, J. Boyd, J. Demetry, S. Dolan, D. Hubbell, K. Lexier, J. Merrill, L. Schachterle, J. Schnitzer, J. Weiss, D. Wheaton

RE: Commencement Speaker and Spring Convocation, 1973

The student members of this group have expressed rather firm convictions as to the nature of the Spring Convocation and the type of commencement speaker desired. The faculty members are sympathetic to these views, and they feel that the relevance of these activities to the Class of 1973 is of prime concern. In this light, the recommendations of the group are as follows:

1. The title of the Spring Symposium should be, "The Spring Convocation."

2. The speakers at the Spring Convocation should not be awarded honorary degrees. The honorary degree has little meaning to the student members of this group. Rather they feel that this requirement might limit the selection of speakers of interest.

3. There should be two speakers at the Spring Convocation. Each speaker should have a deeply committed life-style, and they should represent quite different life-styles. One should support the views of our contemporary American culture while the other should exhibit a more spiritual or altruistic philosophy. However, the speakers are not to debate, nor is one life-style to be considered good and the other bad. Neither should they feel it necessary to defend their philosophy. It is desired that the speakers convey to the WPI student some feeling of the quality and fabric of their lives with the concomitant achievements and compromises; the students can then perhaps better contemplate their own pathways.

4. The following list of names is suggested for the Spring Convocation speakers. One speaker should be invited from each column. The first name in each column represents clear first choices. While the other names in the right are acceptable, the student members are less enthusiastic about the remaining names in the left column.

(left column)
Lee Iacocco, Ford Motor Co.
John Gardner, Common Cause
Edward Cole, G.M.
Edward Logue, City Planner
Clark Kerr, Educator

(right column)
Richard Alpert, Author
William Kunstler, Attorney
Charles Reich, Educator
Daniel Berrigan, S.J.
Ken Kesey, Author

5. The commencement speaker should be awarded an honorary degree. The content of this address should be related to the views and philosophy of the speaker. Most of the suggested speakers listed below have experienced some rather sudden change in their philosophy or way of life, and this experience is of value and interest to the class of 1973. The first name on the list represents the first choice. The rest of the names are not ranked in order of preference.

Eric Hoffer
Ramsey Clark
Daniel Ellsberg
Dick Gregory
Walter Hickel

6. It is felt that invitations for the Spring Convocation and the commencement should be made by both President Hazzard and the student body.

GENERAL CINEMA CORPORATION

Charlton Heston
Leigh Taylor Young
and
Edward G. Robinson
"SOYLENT GREEN"
1:30-3:30-5:30-7:30-9:30

Worcester
Cinema II-III
250-2510-10-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

Max Von Sydow
Liv Ullmann
"THE EMIGRANTS"
1:30-4:50-8:00 PG

ALL CINEMAS
BARGAIN MATINEE
EVERY DAY 12:30-2:00PM
ALL SEATS \$1.00

Rip Torn
Anna Capri
"PAY DAY"
1:30-2:30-5:15-7:15-9:20 R

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Every Thurs. Cicero w/Andrew Hamilton	Friday & Saturday PETER & TOBY	

A TWEED PRODUCTION

Citizen's Commission On Human Rights

If there is a truly forgotten man in Twentieth Century America, it is the mental patient. When one thinks of a mental patient, he usually thinks of a drooling idiot with his eyeballs pointed in weird directions or something of that sort. Sometimes it's hard to think of a mental patient as someone who perceives his environment and has feelings about it.

If you were to go to an institutional psychiatrist and ask him about mental illness, he would probably tell you that it is all very complicated and would you please go to school for 12 years and then come back and ask. Psychiatric PR (PR sometimes means Public Relation and sometimes means lies) has led the public to believe that they have no business even wondering about mental health care, and that the psychiatrists are doing the best they can.

If the average person were to examine the tools of psychiatry, he might have second thoughts. Consider the electric Shock machine, the ice pick, drugs, the straight jacket, the padded cell, the seclusion room. This is indeed strange equipment for a technology which is supposed to help people.

It is possible that some patients feel that the use of such equipment for "therapy" constitutes cruel and unusual punishment.

Consider this very hypothetical example. Suppose you were standing in a crowd with a friend, and someone came up to him and killed him. Immediately a cop rushes onto the scene. What is the first thing he does? He advises the "suspect" of his rights, and rightly so.

Now suppose you are with another friend, and two psychiatrists rush up to him and declare him insane and cart him off to a state or private psychiatric hospital. The first thing they do is cart him off. What about his rights? What rights? They just cart him off and lock him up and that's that. Who ever heard of rights for mental patients?

It is not necessarily that simple. Sometimes it even goes through the courts. But the "patient" (he has to be very patient at this point) is never informed of his rights. Who ever heard of a paranoid schizophrenic being allowed a phone call.

Of course most of us feel that none of this has much to do with us, because, of course, we will never be a mental patient. Little do we often realize that the rights of others have something to do with our own rights. Most mental patients felt the same way before they were mental patients. If you were to examine the problem more closely you would find that many mental patients are quite sane, especially when they are away from the institution.

Many people are locked up in mental institutions not because there is anything unhealthy about them,

but because they disagreed with someone in Authority. Under the "Stubborn Child" Act in Massachusetts parents can put away their children for almost any "reason."

In Connecticut we found a "mental patient" who had been committed by his father because he participated in an anti-war demonstration.

In Virginia we found a girl who had been committed because she left home before she was 18 years old.

A few months ago a girl was picked up for hitchhiking with her four year old daughter on Route 9. She was not fined or jailed, she was put into a mental institution, a much worse fate than the former two. Her daughter was taken away from her and put in a foster home. (The matter is all right now. A CCHR member was on the scene quickly. The mother is free now and she has her daughter back).

Because of the unproved nature of the type of treatment used in psychiatric institutions, the mental patient should have the right to accept or not accept this treatment of his own free will. This right is law in Massachusetts, but it is not being enforced.

In the Citizens Commission on Human Rights we are working to implement a bill of rights for mental patients. The bill, exactly stated is this:

"You are a human being.
You have rights granted by God and guaranteed by the Constitution.

- YOU HAVE A RIGHT:**
- To a lawyer.
 - To a physician of your choice.
 - To a court hearing even if you have had one.
 - To write a judge.
 - To write anyone for help.
 - To talk to a clergyman of your choice.
 - To humane treatment without cruel and unusual punishment.
 - If the institution is violating your rights, demand a lawyer and a court hearing."

We are working to put these rights into effect, to ensure that all mental patients are informed of their rights, and that they are free to exercise them. The end result of our efforts will guarantee proper treatment of mental patients. The implementation of these rights will allow the mental patient to be a human being, which is really the first requisite to recovery from any problem.

If you feel that these rights should be implemented, you can help by joining CCHR and donating about an hour of time per week.

If you would like to help, please call Bill Bromfield in Boston at 262-0640.

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*July Term (June 29-July 27)

*August Term (July 30-August 24)

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APARTMENT FOR RENT: Park Avenue-Salisbury Street area. First floor, completely redecorated four-room apartment, large living room with fireplace, TV-FM antenna, appliances, and garage. Convenient to schools, churches, bus line. References. Call 755-7866.

'62 JEEP: Willys CJS, 4 wheel drive, 6' plow, new paint, cloth top, 4 cycle engine, 23,000 miles. See Glenn, M-425.

5-ROOM APARTMENT to let for summer: 3 bedrooms, kitchen, living room, furnished. At 101 Piedmont St., \$180/month, will haggle. Call 799-5596.

PLEDGE RAIDS INC. announces its new Second Semester Specials. Consultation services and recommendations available. Reliable, experienced, inexpensive. Post name and number on D.H. mail room bulletin board (Att.: P.R.I.), we will contact you. An independent organization.

WANTED TO BUY: Used AM/FM radio in good condition. P. O. Box 1575.

FOR SALE: Sony 630 tape recorder. Comes w/20w/channel amp. speakers. Has sound-on-sound, reverb, 4 inputs. Range 30-22K Hz. Tech Hifi price \$480. You name price. Call Wayne 757-9308.

10-SPEED RALEIGH Grand Prix used \$50. 799-4481.

FOR RENT: Apartment June-August. Near Friendly's on Highland St. See Jim M-228. 752-9875.

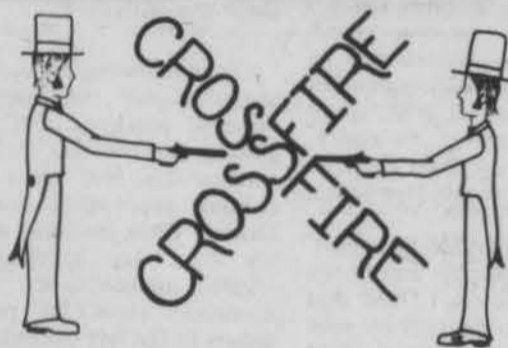
FOR SALE: Tan portable Webcor radio - Battery or outlet operable. Has four bands - shortwave, AM, FM, marine. Retractable antenna. \$25. P. O. Box 2302.

1965 TR4A, radials, 2 tops, AM/FM, green, only 63 Kmi, garaged 3 winters, Koni front shocks, new body job and paint, 21 miles/gallon, new brakes, water pump. \$750. 755-2601, ask for Jeff.

FOR SALE: Small refrigerator, ideal for use in dormitory rooms. Two school years old, excellent condition. Price when bought new, \$99. Present sale price \$65. If interested call 791-6196 (preferably dinner time or later) ask for Alex.

FOR SALE: Two (2) Rocket 14"x7" reverse chrome mags. 5 lug 4 3/4" bolt pattern, 7/16" studs. Fits GM intermediates. \$50. See Bob SA201.

George Rochberg
will speak on
"The Fantastic and the Logical"
THURSDAY
at 7:30
HIGGINS HOUSE



by Don Lavoie

Abortion: The Answer Resolved:

- (1) that the question is: "Is the fetus human?"
- (2) that this question is part of the more general question: "What is a human being?"
- (3) that this latter question (and hence the former as well) must be answered on behalf of the State for all its citizens in order for the State to enforce laws for their protection. That is, it cannot be left to each individual in society to decide for himself which persons should and should not be protected by the law.

We will consider two types of definitions of the human, the biological and the societal. The biological definition is simply that scientific description differentiates various animals from one another, and thus, in this case, describes the genus man. The societal definition is that which is used by the authorities of the State for the purpose of defending people from other people.

The biological definition is nonexclusive. All types of humans, black and white, male and female, old and young, healthy and ill, born and unborn, are members of the biological genus homosapiens. A human embryo cannot develop into a cow, or vice versa. The human fetus is scientifically an early stage of the human adult in the same way in which a tadpole is an early stage of an adult frog. The adjective 'human' is applied to the noun 'fetus' because a fetus, scientifically speaking, is a particular type of human.

The societal definition, in practice, is often quite exclusive. Citizens in ancient Rome were a minority of the population. The question to consider here is whether the societal definition of 'human' ought to be restricted to exclude unborn humans.

Obviously we must be careful about restricting particular (biological) people from the societal definition of human. To exclude from the societal definition is to deprive these particular persons of all protection (other than whatever interest the SPCA can drum up) in society. The restriction in Nazi Germany that the human is by definition an Aryan was added to the biological definition, giving horrifying results, to cite an example. To avoid such ghastly occurrences the burden of proof must lie with those who wish to add qualifications to the fundamental biological definition of the human. Any added restriction must (1) have some rational grounds (i.e., not be totally arbitrary) and must (2) be applied consistently by the restricter to all conceivable cases. It is inadmissible, for example, to arbitrarily define as human only those

ABORTION
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biological humans who have aged to at least five years. Since there is no fundamental difference between all four year olds and all six year olds, this added distinction has no rationale (e.g., that all societal humans must have the power to reason, or to communicate, or to be productive in society, etc.) if that restriction is not applied universally to all cases of biological humans (e.g., young children or the mentally disabled), violating (b).

Due to lack of space I cannot consider all the qualifications which have been suggested in the attempt to exclude the fetus from the class of societal-humans for the purpose of legalizing abortion. I will concentrate on the more popular arguments.

1. The fetus: - not to be considered human before the point at which it becomes capable of living outside of the womb. (See recent Supreme Court Decision)

The argument that the incapacity of an individual to survive when removed from his natural environment is not applied to any other case. A fetus, by its very nature, requires the environment of the womb (or an artificial womb as a substitute, technically permitting) in order for it to survive. A newly born infant requires a very delicate environment as well, and if torn from this, it will die. A fully grown, healthy man, placed naked on the North Pole or on the moon, will quickly de cease. The degree of helplessness of any man in any unnatural environment does not logically lead in any way to the conclusion that he is not human. It is totally arbitrary to choose the point when a fetus' required surroundings can be properly imitated with our present state of technology as the point at which the creature becomes human. Consider the case where one Womb Machine is created which can substitute for the entire prenatal period. Now those fetuses are human, and thus receive the protection of the law, whose parents can afford this wondrous machine, while all others are not? Helplessness, in this case the inability to survive outside the womb, does not logically have anything whatsoever to do with the question of whether a creature is human.

Abortion:

The Answer Continued Next Week

Up With People at WPI

WORCESTER, MASS. — What are you doing 7:30 p.m. May 10th? Get involved and go out to the Harrington Auditorium at Worcester Polytechnic Institute, where the international cast of Up With People will be in concert. The two hour performance includes lighting, singing and dancing, and a kaleidoscope of original music — rock, jazz, country and folk.

What is Up With People? Nearly one-hundred dynamic, enthusiastic young people between the ages of 17 and 25 from all parts of the world. They have appeared on television, on stage and in over 36 countries.

The group is an independent, non-profit educational corporation. Traveling ten months out of the year, the group is also a mobile classroom. They study as they go, receiving credit units for partaking in the many educational opportunities they experience in the different cities and countries they visit.

This cast performed at the Munich Olympics in September, and then toured Spain for three months. This summer their tour will include California and the Southwest, plus London, Germany and Italy.

A unique thing is that the members stay in homes of families, wherever they go. They want to learn everything about the people, city, and country they're in, plus the families learn from having them.

Up With People uses the international language of music to get their simple, but important message across — the people are what really matter, and that's an idea worth celebrating.

So make it to the concert Thursday, 7:30, May 10th.

Tickets are available at the WPI P.R. Office, Thom McAn, Chess King, State Mutual, Peoples Bank, Commerce Bank, and Guarantee Bank for only \$2.50. For more information call 753-1411, ext. 305 or 306.



A cast of Up With People is swaying to a Flemish folk song while on a tour of Belgium.

From The Social Chairmen

First a note of thanks to you for electing us as Social Chairmen. Right now we are in the planning stages of a concert which is to be part of orientation week next fall. This Thursday a survey will be conducted through the school mailboxes to get some ideas on particular groups you would like to have. It is still too early to know what groups will be touring this area in the fall, but the survey should produce more than one or two choices. For the people who have complained in the past, now is your chance to say something.

As far as the rest of the year is concerned, we are looking for people to become involved in a Social Committee. If anyone is interested, get in touch with either Jim Rubino (ext. 497) or John Young (ext. 495), or just drop a note in Box 2539.

Since the opening of the mailroom facilities in February, it has become apparent that the students not living in the dorms do not realize the importance of their mailboxes. (Some students haven't even picked up their combinations yet.)

All inter-school mail goes through the mailroom. In the past this has included grades, schedules, bulletins and announcements. Also of importance is that even if your address is off campus, but WPI appears on your correspondence, then the post office will send it to the mailroom.

It would greatly help the movement of mail if off-campus students (Grad and undergrad) check their boxes at least once a week.

the mailroom employees.

ASME Elections

The elections for the Student Section of the WPI chapter of the American Society of Mechanical Engineers will take place this Thursday and Friday in the M. E. department office. Ballots may be cast for the offices of president, vice-president, treasurer and coordinator during the regular office business hours.

Nominated thus far are Cliff Ashton, Lenny Brzozowski, Hugh McAdam, Roland Moreau, Rich Ventre and Mark Whitney. If there are any further nominations, they will be accepted by Professor Hoffman prior to the beginning of the elections on May 10, 1973. Professor Hoffman can be reached at Extension 217 or in Higgins Labs, room 123.

The Bag



Dear Bag,

My phone keeps ringing all the time and girls even come up to me on the street and invite me over to their place. What can I do?

Puzzled

Dear Puz,

Don't wear such tight pants.

Dear Ex,

Why stop? Haven't you heard that two's company and three's a ball?

I found this little goodie in my box last week, and I'm waiting for more questions or gossip, boys! the bag.

Could you please print the following message for me in your column.

Dahdidit-didit-dahdahdit Didah-didahdit

Dididit-dahdahdah-didahdah dahdidit-dahdahdah Didit dah-dahdit-dit-dat dahdahdah-didah-dididit - dit - didahdit - dit - ditdididahdahdidit. dididahdahdit.

Thank you ever so much.

Exasperated

Dear Bag,

To keep in school I must work nights, so my girl and I make it in her bed during the daytime. Only thing is, the gal who lives next door keeps stopping by "just to say hello" and we have to stop and say hello to her. How can we keep her away?



Uncle Sam

Wants You!!

WORCESTER POLYTECHNIC INSTITUTE

FACULTY EVALUATION FORM

Performance Factors	Far Exceeds Job Requirements	Exceeds Job Requirements	Meets Job Requirements	Needs Some Improvement	Does Not Meet Minimum Requirement
Quality	Leaps tall buildings with a single bound	Must take running start to leap over tall buildings	Can only leap over short or medium buildings with no spires	Crashes into buildings when attempting to jump over them	Cannot recognize buildings at all, much less jump
Timeliness	Is faster than a speeding bullet	Is as fast as a speeding bullet	Not quite as fast as a speeding bullet	Would you believe a slow bullet?	Wounds self with bullet when attempting to shoot gun
Initiative	Is stronger than a locomotive	Is stronger than a bull elephant	Is stronger than a bull	Shoots the bull	Smells like a bull
Adaptability	Walks on water consistently	Walks on water in emergencies	Washes with water	Drinks water	Passes water in emergencies
Communication	Talks with God	Talks with the angels	Talks to himself	Argues with himself	Loses these arguments
Name	1 2 3 4 5			Name	1 2 3 4 5

STUDENT GOVERNMENT MEETING

Date: May 8, 1973

Place: Library Seminar Room

Time: 7:00 p.m.

Agenda:

- (1) S.A.B. Budgets
- (2) Class Elections
- (3) Discussion of appointment of students to faculty committees.

REMINDER TO ALL STUDENTS:

Please return all Library books by Monday, May 21. Grades, transcripts, or diplomas will be withheld from all students with outstanding books or bills.

SPORTS

WPI Nine Wins Three

The WPI baseball team raised their record to 5-4 after completing a busy week that included games with Northeastern, Tufts, Clark and Suffolk.

On Tuesday, the Engineers dropped a 9-3 decision to Northeastern. In that game Dave Modugno and Rick DeChristoforo hit home runs for Northeastern and freshman Jim Walker went the distance on the mound, pitching a five hitter.

Wednesday, WPI hosted Tufts and came away with a 7-2 victory. Bob Simon led the offensive attack with three hits and Jimmy Buell, Dave Parmenter and George Klug chipped in two apiece. Mike Sundberg pitched a solid game for Tech as he picked up his second win with a four-hitter.

WPI traveled across-town to Clark, Thursday and handed the Cougars an embarrassing 14-0 defeat. Freshman Tim Hendrix pitched an eight-hit shutout in his first college start. Don Buccu and Steve Buba, had three hits each to lead the Engineers 20-hit attack.

Jimmy Fountain was the star on Saturday as WPI downed Suffolk 9-1. Fountain not only pitched a seven-hitter, but also hit a two-run homer in the sixth inning that keyed a five run rally to break the game open.

In other baseball action the WPI jayvees dropped a 7-5 extra-inning decision to Worcester Junior College.

NORTHEASTERN		WPI	
ab	r	h	bi
Rezzuti	5	2	0
Hantzis 2b	3	2	1
Modugno rf	4	2	1
Arch bault 3b	2	2	2
Burke lf	2	2	0
DeC'telero 1b	1	3	3
Kring c	3	0	1
Morgan ss	4	0	0
Walker p	4	0	0
Childers 3b	0	0	0
Parcello lf	1	0	0
Tota p	1	0	0
Cordella ph	1	0	0
Hendrix p	1	0	0
Shopus sh	1	0	0
Totals	28	9	14



The Heavyweights power to the starting line and eventual victory in the City Championships.

Crew Club City Champs

by John Matthews

On Wednesday, April 25, the WPI Crew Team won the Worcester City Championships held on Lake Quinsigamond. The Varsity Heavyweight Eight crossed the finish four lengths over Holy Cross, Assumption and Clark, easily winning the City Championship Cup.

The WPI Women's Eight finished first, six lengths ahead of Holy Cross and Assumption women, in a clear display of superior training and conditioning.

The Varsity Four won its third regatta, beating Worcester State's usually good four by seven lengths. The WPI Lights rowed in the Junior Varsity event and lost to a faster Holy Cross eight, with the Freshmen race also bowing to the Cross' Frosh.

Three days after winning the City Championships, the Crew Team rowed on the Hudson in the annual President's Cup Regatta last Saturday, composed of some of the stiffest competition in the Dad Vail League. The Varsity Heavyweight Eight, suffering from an illegal and unheard start, found themselves three lengths behind Trinity, Temple, St. Joseph's, Marist, Manhattan and Holy Cross before the race ever began. By the thousand meter mark they had overtaken Manhattan and the Cross, but, because of a wandering Marist shell refusing to move out of WPI's way, the Heavies were forced from using their final sprint, and crossed the line fifth, their bow inches behind Marist blades.

The WPI Four met their stiffest competition and placed fourth, a deck behind third place. Again, poor officiating, with Atlantic C.C., forced three lanes over by the finish from another shell, protesting the race.

The Freshmen, repeating Wednesday's performance, placed second behind Holy Cross, with the Trinity shell sinking at 750 meters and Marist sinking at the 1200 meter mark from rough water breaking over the gunwales.

The Lightweight rowed in the Junior Varsity race, beating Trinity, Holy Cross, Marist, Manhattan, Temple and Fordham, placing first, and winning the President's Cup Junior Varsity trophy.

The WPI Crew Team also won the President's Cup Point Trophy with 15 points total, followed by Trinity and Marist tied for second at 14 points each.

This Saturday, the team, men and women, rows in the annual Rusty Callow's New England Finals on Lake Quinsig, with trial heats starting at 10:00 a.m. and finals in the afternoon.

While the Oarsmen were on the Hudson the Oarswomen competed on the Connecticut with Connecticut College Women. Our girls were ahead of Conn College at the start and were in first place until the last 300 meters, when the Connecticut women overtook them in a surprising sprint and crossed the line just ahead of our women.

The Crew Team's trophies have been put on display in the Bookstore showcase.

Frosh Basketball

The Eagles, an independent team, won the 1973 Freshmen Basketball Tournament by defeating the Phi Kappa Theta freshmen 55 to 33 last Thursday night.

There were twelve freshman teams divided into two leagues in the tournament. The Boynton League was led by a strong team from the Black Student Union and a strong independent team, the Stars. The Salisbury League was led by the championship team, the Eagles.

A preliminary playoff determined the 3rd, 4th, and 5th place order in the Boynton League, where three teams were tied.

The quarter finals matched 1st and 4th place teams and 2nd and 3rd place teams in each league. BSU defeated SAE, Stars defeated D-2, Eagles defeated SPE, and PKT defeated 76'ers.

This matched the Stars with the Eagles and BSU with PKT in the semi-finals. The Eagles defeated

the Stars 53 to 39 and PKT defeated BSU 51 to 45.

The Eagles then played and defeated Phi Kappa Theta in the finals by a score of 55 to 33. Pete Krupinsky led the Eagles with 24 points and Tom Vaughn had 10 points for PKT.

Many thanks to all freshmen teams which participated and helped make this tournament successful. Also thanks to the upperclassmen who gave time to ref in the playoffs.

Boynton League	
1. Black Student Union	5-0
2. Stars	4-1
3. Daniels 2nd	2-3
4. Sigma Alpha Epsilon	2-3
5. Alpha Tau Omega	2-3
6. Phi Gamma Delta	0-5
Salisbury League	
1. Eagles	5-0
2. Phi Kappa Theta	4-1
3. 76'ers	3-2
4. Sigma Phi Epsilon	2-3
5. Riley 3rd	1-4
6. Riley 1st	0-5

WPI		SUFFOLK	
ab	r	h	bi
Buccu 2b	5	1	2
Simon lf	4	1	0
Mikus 3b	5	1	2
Buell ss	5	1	3
Buba 1b	3	0	1
Par'ter rf	4	0	0
Pitts cf	4	2	0
Klug c	3	1	0
Fountain p	4	1	2
Colem'n 2b	0	0	0
Shops 1b	0	0	0
C'della rf	0	0	0
Kin'vy cf	0	0	0
Totals	37	9	12

WPI		TUFTS	
ab	r	h	bi
Buccu 2b	5	1	1
Simon lf	4	1	3
Mikus 3b	3	0	1
Buell ss	4	2	2
Buba 1b	4	1	1
Parmenter rf	4	0	2
Pitts cf	4	0	1
Klug c	4	1	2
Sund'g p	3	1	1
Totals	35	7	13

WPI		CLARK	
ab	r	h	bi
Buccu 2b	5	1	3
Coleman 2b	0	0	0
Simon lf	6	1	2
Mikus 3b	4	0	2
Siok 3b	1	1	1
Ruell ss	5	2	1
Buba 1b	5	3	2
Shopus 1b	0	0	0
Parmenter rf	4	0	1
Cord'la rf	2	0	1
Pitts cf	4	3	1
Kin'vy cf	2	0	1
Cormier c	5	2	0
Hendrix p	3	1	2
Totals	46	14	20

Netters Drop Three

The WPI tennis team, crippled by sudden injuries, lost three matches this week. On Tuesday, Clark University defeated WPI by a score of 8-1. On Friday and Saturday, Coast Guard and RPI were victorious by scores of 9-0 and 8-1 respectively.

In the Clark match, WPI's only score came as George Ranney won his singles contest in three sets. On Saturday, Paul Houlihan was victorious for the Engineers, although many of the individual matches were close.

Captain Andrew White was out of action for the Coast Guard match, and despite his injured back played well in the other two contests. Marty Meyers and Rich Dachowski were also missing from action for one or two matches during the week, leaving Houlihan, Servio Tribaldos, and Neil Poulin for most of the action. The team is now 2-5 overall and hopes to finish out its season by victories over Lowell Tech and AIC in the next two weeks.

The WPI jayvee tennis team had two matches during the week. On Monday, they lost a tough 5-4 decision to Clark University, and on Saturday lost again — this time to Worcester Academy 8-1. The team shows much improvement, and should help the varsity next year.

Anyone interested in running for the office of Junior Prom Chairman must submit a petition of at least 25 names (Juniors only), to Dave Lapre (Daniels 222 — Box #1255) by May 11th.

Lacrosse

The Lacrosse team played 3 games last week, losing two and picking up their first win. The win came against Babson College. At the end of the half, WPI was down 3-2 with scores coming from Buzzy Gautreau and Bob Fair both being assisted from T. Uccellini. At the end of the 4th quarter the score was tied 4-4 with 2 more unassisted goals coming from John Lord and

by Bill Frazier

Track

The WPI trackmen won one and lost one in this week's competition. Their victory came by whipping Middlebury College 110-40, and the loss was to Tufts University by a score of 78-67.

In the Tufts meet WPI came out of the field events about even, but the powerful Tufts runners did their thing. WPI was only able to manage two first place finishes. Andy Murch won in the mile and Kurt Lutgens took the 440.

Inclement weather produced some bad times but WPI took all but one first place against Middlebury. Jon Hatch and Bill Komm were double winners with victories in the 100- and 200-yard dashes for Hatch, and the javelin and hammer for Komm.

The team has one more dual meet which is against Trinity on Tuesday and hopes to end its season with a 9-2 record. Also coming up are the Easterns and New England's. Murch looks like a real strong contender in the mile. Other hopefuls are Alan Briggs, Chris Keenan, Dave Fowler, Kurt Lutgens and Robert Donle.

Victorious

Roger Rowe. The big score of the game came with 20 seconds left in the overtime period. Joe Jukowski made a quick stick shot off of Ron Chan's pass to give Tech the win 5-4. Rich Drew played well in the nets stopping 26 shots.

The next day the team traveled to Mass Maritime. WPI, had a hard time defending Mass Maritime's midfielders who scored 12 of their 16 goals. WPI's defensemen did a good job holding Mass Maritimes attackmen to 4 goals. WPI's only scoring came from Tom Polumbo who scored two unassisted goals off of fine drives through the defense. The final score was Mass Maritime 16, WPI 2.

The team's first home game was played Saturday against Westfield State. For the first time this season WPI went into the 2nd half leading. All of Tech's scoring was done in the 1st half. Unassisted goals came from John Lord, Roger Rowe, Bob Fair, and Warren Deshon all who had to make good moves to get the shot off. WPI held the lead until 1:17 in the fourth quarter when Westfield State tied it up. Two more fourth period goals put Westfield State out front and gave them the win 6-4. Again Rick Drew did a good job in the nets stopping 18 shots, many of which came from in close. The team's defense has been improving especially in clearing the ball to the offensive zone. The offensive is moving the ball better but they weren't putting enough of their shots on net.

This week the team is scheduled to play New Haven College, Wednesday at 3:00 (away) and Castleton State Saturday at 2:00 (away). The final game of the season is a home game against URI, Wednesday, May 16 at 3:00 the soccer field. The team appreciates the support from the people who came Saturday and hopes the same people and a lot of other people support the team by coming to the games.