Pollution not problem in power plant smoke

By Bert Halted

Last Saturday in The Tech, showing the MIT power plant smokestack spewing forth clouds of black smoke provoked considerable discussion and raised some questions about possible pollution from the Institute. As it turns out, however, the smoke-cloud incident was but a freak accident at the power plant which was quickly corrected by plant personnel.

Mr. Richard McKay, Superintendent of Electric Plant, and Thomas Shephard, Superintendent of Electrical Services, explained that the physical plant personnel feel they have "compiled an enviable record in the two years since July, 1970, when the anti-pollution laws went into effect here.

The anti-pollution regulations to which Shephard referred have only been extended twice at MIT. Once was at the National Magnet Labs in 1970, and again during the short incident of two days in 1970. McKay added that physical plant policy provides for immediate notification of the authorities should any such violation occur.

In a memorandum to physical plant personnel concerning the recent incident, McKay stated that: "A situation occurred... Friday, February 11, 1972, which produced puffs of visible color or smoke in the gases. There were two puffs recorded on the smoke density instruments, the first lasting at approximately 2:10 pm and the second at about 2:30 pm. The average duration of the first was about 60 seconds and the second about 25 minutes."

The situation which caused the smoke puffs was a power failure in the D.C. but which serves the flame monitoring system for the boiler burners. There is provision for transfer of power for the flame monitoring system from the D.C. bus to storage batteries, but in this particular instance the transfer device responded too slowly to prevent an interruption of power to the flame monitoring system. This system operates in a fail-safe mode and therefore, upon loss of power to it, shuts off all fuel to the burners.

"The smoke puffs were associated with starting of the burners under abnormal conditions. The stopping of the fires causes a rapid drop in steam pressure, which in turn produces poor atomization of fuel, which results in poor mixing of air and fuel and thus poor combustion which is smoke. Automatic controls become ineptive. In this type of situation the starting-up of the boilers is done manually under considerable danger of the steam dropping in steam pressure, which can have far-reaching effects throughout the campus, and rebuild pressure back to normal..."

"It is my opinion that the plant personnel acted responsibly and quickly in this situation and in accordance with the situation which may reasonably be expected under the conditions."

McKay also noted that the D.C. bus in question was a line supplied by the power company, over which MIT had no control. The transfer device whose switching caused the burners to shut down has been readjusted to work more quickly.

Early computers analyzed

By Margo Levine

At Wednesday's History of Technology seminar, Bernard Cohen, Professor of History of Science at Harvard pointed out that Bab- bage's computer, designed in the 1840's, went directly from calculations to producing type, thus eliminating the human error inherent in typing and proofreading.
Arithmometer first, then digital computer

(Continued from page 1)

Thomas next developed the Arithmometer that soon took over the market though it was first monopolized by industry. However, the invention spread and became a vital tool to the insurance companies and the government. Although developments such as Odhner's peg wheel and Bollee's multiplying block appeared on the scene, the Arithmometer still dominated.

Cohen stated that its superiority was not challenged until Steiger's development of the "millimatic" in the early twentieth century.

Cohen pointed out that despite all these calculating devices, the first practical digital computer did not appear until de Colmar's release of his invention.
Chinese Students Club: changing goals

By Peter L. Chu

With approximately 400 Chinese students at MIT it is not surprising that the Chinese Students' Club (CSC) is one of the largest student organizations on campus. The club has over 150 members and has been an important resource for students. The push within the CSC toward more and more interaction with the outside community continues.

SUMMER JOBS FOR JUNIORS IN PHYSICS, CHEMISTRY AND ENGINEERING

The Department of Engineering and Applied Science of Yale University is offering a limited number of Special Grants to college juniors who would like to gain experience in advanced research this summer. Available projects include work involving air pollution instrumentation, surface chemistry and catalysis, gas lasers, and organizations on transport and commerce. Students will be paid.

Send applications and information to: John Deaver, Office of Academic Affairs, Yale University, New Haven, Connecticut 06520

For more information call Howard Bruck at 864-5810.
by Paul Schollcr

Few people were surprised, last March 5, when the announcement came that Dr. Jerome B. Wiesner had been elected president of MIT. But nearly everyone who was surprised was shocked to learn that the Dean of Engineering Paul E. Gray had been named Chancellor. "Chancellor?" was the question of the hour--"What does a Chancellor do?"

Gray had been a member of the University faculty for eighteen years and had served as Director of Undergraduate Studies and Walter, Electronie Components and Measurement (and who) is willing to loan or sell, please notify Professor Senturia's secretary, Room 13-303.

All freshmen and sophomores interested in studying abroad during their junior year should explore the idea promptly. Long before students are accepted by any college or university, they should consider their major interests, subject areas, and the long-term planning is important. If interested, contact the Foreign Study Advisor, Dean Haddad, Room 13-305.

* Not sure about a summer job? Deadline for submission of proposals for Erbrot Student Summer Jobs is Friday, February 28. Information sheet available at the Financial Aid Office--Room 5-119.

* Graduate students who hold appointments as Research Assistants, Teaching Assistants, or Instructors are eligible for the U.S. Government-funded Ford Fellowships in the American Association of University Professors. For application forms contact Mr. Stuart, Root 5-119.

* A Nansen-fellowship for research in the public interest, MASS FREG TA, INC. The fellowship is to be used for research on other campuses throughout Eastern Massachusetts. As of the last Friday in May, 32 students wishing to small themselves of this opportunity should send a description of their project and make arrangements for sending in their applications by May 19. Application form in Room 10-303.

* A seminar on advanced uses of analog, digital, and hybrid computer simulation, on-line experimental analysis, and commercial applications of computers was held on Tuesday, Feb. 29, in the Vannevar Bush Room. "A primer on computer simulation" was the topic. For more information and details on research applications that have featured intensity, accuracy, speed, and difference, and experimental engineering.

* Back graduate students who are within a year or two of completing their Ph.D. and interested in applying for Teaching Internships from the Woodrow Wilson Foundation should apply to the Graduate Office for details. For example, the following are available in the Graduate Office (Room 3-154).

The Massachusetts Department of Youth Services (DYS) is interested in talking with students who have had experience with the implementation of a DYS information system or the implementation of a juvenile justice system model, and specifically, with the coordination of juvenile justice service delivery systems, design and implementation of a health delivery system for juveniles on parole, and research on juvenile parole. For more information, call or visit D. Buremacher, 20C-211.

Vol. XXII, No. 6 February 25, 1972

PAGE 4

US & China: what's to be won?

Chancellor: "That connection did not come?"

President: "What is your (the Chancellor's) job?"

Chancellor: "I'm a policy maker, and I was recently asked to answer questions about MIT, the example of the department he serves in the mood of the campus. Upon his return, he was the guest of a living group at dinner: he handles the administrative chores that fall by law on any public official, and is responsible for the various staffs to Peking along with the President. Of these, 43 were from television network broadcast staffs, and 17 were network executives masquerading as technicians, leaving 27 positions for others. Of the remaining 27, 5 were Chinese, with the remainder of the delegation having formal titles that were probably written before Nixon departed from the White House in the early morning. The visit was considered to be an important part of the President's agenda on China. However, the Chinese leaders are said to be extremely nervous about the safety of their nuclear weapon assembly plants in dfangkou, precisely where the US-Soviet nuclear arms race is. Hence, the ever-present, vituperative Russian denunciations of the US, are a serious threat on the American forces. The leverage the Chinese, however, is that somehow the Chinese must be insured that somehow the Chinese, or at least their military muscle, can be used to make the Chinese believe that the Chinese are stronger than the Soviets. If the White House has not arrived in Peking on February 1 to negotiates an agreement between the Chinese leaders to be, "What is the Chinese must be sorely pressed indeed to declare peace, to be cute. The White House has not arrived in Peking on February 1 to negotiate an agreement between the Chinese leaders to be, "What is the Chinese must be sorely pressed indeed to declare peace, to be cute. The White House has not arrived in Peking on February 1 to negotiate an agreement between the Chinese leaders to be, "What is the Chinese must be sorely pressed indeed to declare peace, to be cute. 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The freedom to go beyond just the horns to also play organ and sing your first solo album.

The freedom to call that first album "Kids nowadays ain't got no shame."

On A&M Records

Produced by Jimmy Miller

USE THE POWER REGISTER AND VOTE
Analysis:

**Ergo, Thursday, The Tech and WTBS**

By Paul Schindler

MIT's campus media seem anomalous to many; two are on the verge of death. The four major media outlets are all having trouble. Are things as bad as they seem? Why? Where do Ergo, Thursday, The Tech and WTBS go from here?

Last week, there was no Ergo, no Thursday, just two issues of The Tech, issued with their clockwork Tuesday-Friday regularity in the common pattern of recent years. (WTBS was Thursday, The Tech verging of death. The four major student-run, volunteer organizations is not so bright. Money and the air more hours than at anytime before. There was no perceptive talk.) There was no Voovidoo issued this month, no infancy: both are dead and Tech Engineering News seems to be dying. Last year's bold experiment in communications, The Age, has brought no revelation to MIT media, as nothing like it has appeared since.

Only with Rain has there been recent growth (probably due to a realistic and infrequent publication schedule) and of course, the MIT house organ Tech Talk. But Tech Talk, unlike the other media mentioned so far, is not student run; it has no problem with money or people.

For the other media, the picture is not so bright. Money and people are the lifelines of a student-run, volunteer organization, and to some degree, all the needed work is coming from a lack of one or the other. They have the growing trouble of keeping new and competent people to maintain their organizations, while the struggle to obtain sufficient resources to continue is the daily worry of people already in the saddle. The media have a much harder time succeeding than many other student organizations. Unlike most, they must put out a "product" continuously, on schedule, week after week (day after day for the radio station).

For the time being, each of the four media claims to have sufficient people and sufficient resources to continue operation indefinitely. They are "going concerns" but need help to improve, or so they say.

**Thursday**

Thursday, which styles itself "MIT's Community Newspaper," was, at one time, just that. Founded in April of 1969, the paper served as an outlet for community members who had something to say, sans the filtering of The Tech. A former The Tech staff member, Jim Smith, started the paper.

In the early days, it printed the considered opinions of community members and the student body. Since then, it has been much to consider: the issues raised by the "research stoppage" of early 1971. The occupant of University Hall at Harvard is in the question of the paper.

Smith did not have a real "radical-left" slant to his politics, although he was clearly leftward. The paper is one of the "underdog effect" (something of a reverse snob appeal in the "we read it. It gives them something of which they are proud" school). The paper was nearly killed by Kevin George. George began his term as editor under Don Ziegler. Ziegler is now editor of Thursday once again.

A junior, and a literature major, at MIT, Dern seems, at times, to be乙烯ene; he is "radical" as he speaks of his work at the paper: ""We're an alternative newspaper," he said while at the top and work my way down through the organization."

In a more serious vein, Dern adds, "We're still in jumble in June and we did it. We kept the paper going because we liked it, and we like it because we are not taken away from the paper."

Kevin George also edited the paper before it fell to Tim Krooper to carry the ball.

It was Fall of 1970, and apathy was rampant as MIT admitted its most distressing class in recent memory. The paper published sporadically, and Krooper bowed to the inevitable and incredible pressures, Thursday could not run as the paper should have been run. Krooper resigned and went to Tech.

After December 12, 1970, it appeared that Thursday was gone. Deeply in debt, with no one at the helm, it looked to be another casualty of the kind of interest evinced during that "apathy autumn." A call for a "social or group of avatars over MIT" seemed to be of no avail.

Dan Dern, Technical Literarv Editor (and official photographer of the North American Fabian Movement Association) and a group of others came forward to save the paper. Armied with frisbees, phony money, and infla-...
Why are campus media on the decline?

holder of nearly 20 international patents, advisor to the Biafran government on the use and man-
ufacture basis as well as MIT research associates and now a Harvard student studying the
history of science, he never did much for the paper besides
found it.
Within weeks of the for-
mation of Thursday, Stew put up posters announcing a paper which would express opinions
outside the student range "be-
tween Michael Harrington and Mao Tse-Tung." After the for-
mation meetings, the paper to the members of the
staff should be good for two
skilled production help - the
need for more ad salesmen (on a
noted.

morale problems as the political

right not that this was his
paper to the members of the
mation meetings, he left the

tween Michael Harrington and

"It isn't my life's work.",

this paper out, but the viewpoint
mit, "It's no great kick to put

(VI-3) who hold the top editor-

is in

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Exhibit 7 pm

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Chagall, Deli, Haymonson, Miro, Moscovicz, Ropcell, Roszal, Silva, Soyer, Buffet, Plus many others too numerous to mention.

The paper was replete with line
drawings and little jokes, and
rarely ran a large front page
picture until the 1950s.

Back issues of the paper are

The pair also noted a crying
need for more ad salesmen in the
business, there are other needs, de-
scribed by chairman Bob Elkin,
"The business staff is essential to
the operation of the paper, as
are the advertising salesmen,
and we need more of both. The
people we have now have all
heavy commitments, and have
worked hard to turn last year's

The Old Villa Synagogue
PURIM
Feb. 28, 1972
P.M.

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The Tech has provided "Con-

The tech has not always been
to the MIT community. Between
1687 and 1817, it was the only regular under-
graduate newspaper, and developed
many symptoms of the arro-
gance of power because of its
monopoly situation. The paper
has changed its role in response
to the competition provided in
recent years.

The Tech has not always been
a newspaper in the modern
sense, but neither has any other
old newspaper. In 1897, the complete coverage of a seminar was "Mr. X gave a most
engaging talk to the men gathered
red here Tuesday last . . . " The
paper was replete with line
drawings and little jokes, and
rarely ran a large front page
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Two issues of the paper are

The Tech has not always been
a newspaper in the modern
sense, but neither has any other
old newspaper. In 1897, the complete coverage of a seminar was "Mr. X gave a most
engaging talk to the men gathered

800 dollar loss 'into this year's
profit. But the business staff
receives few rewards, and there
is a 3,000 day lag before com-
misions are paid to salesmen.

A number of the old staff are
willing to make the kind of
commitment the

(Con't on page 8)
To survive, media need more support

(Continued from page 7) "commitment could be smaller." No, the problems are really suffering from a money crunch. The paper receives most of the nation's attention directed at the campus through the National Educational Advertising Service (which also gives Thursday ads) and according to its Advertising Manager, Malcolm dikates the local ad market. As a result, over the long run, advertis-
ing tends to cover printing costs, or occasionally turn a small profit. This part of the paper's finances is comparable to others.

In addition, the paper has a production shop with specialized typesetting equipment which it uses both for typesetting its reg-

The Tech's crowed goal is to serve the MIT community with news and features that its editors feel are important, worthwhile and meaningful.

Finboard

If you talk to any member of Finboard about publications and debts, the conversation will eventually turn to the now de-

The magazine left a legacy of incomplete records which make any examination of the paper's state of affairs impossible. Any examination of the paper's state of affairs is impossible. Any examination of the paper's state of affairs is impossible. Any examination of the paper's state of affairs is impossible. Any examination of the paper's state of affairs is impossible. Any examination of the paper's state of affairs is impossible.

One member indicated that "all the publications have a lack of accurate records which make it difficult to assess their finan-
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When asked, Kavazanjian de-

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Chinese Students: new cultural awareness

(Continued from page 3)

Chinese Students' Club members are currently doing work in Chinatown involving tutoring, translation, and the formation of Big Brother/Big Sister relationships with disadvantaged youth. Numerous past CSC efforts of cultural awareness at MIT have been quite successful. During IAP, an intensive Mandarin course was presented in which 27 people participated, the large majority of whom were Caucasians. A Mandarin course which started February 14, is now in progress.

Other events held during IAP included two film festivals for the public. One involved movies in Chinese with English subtitles and the other festival involved two classic film documentaries about China.

Last November, a China Symposium was held at MIT which was quite successful. The one-day event centered on three topics: medicine and science in China, Chinese society and internal politics, and US-China relations. Speakers at the symposium related their personal experiences on recent trips to mainland China.

All students are welcomed to join CSC and to attend any activities. Says Ray Eng, "Students must realize that CSC activities are not just for Chinese students, but for everybody. We want non-Chinese people to come to our activities."

The current philosophy of the Chinese Students' Club is perhaps best expressed by Robin Stuflin, an "outsider," who wrote a letter to CSC which was published in the October issue of the CSC Newsletter:

"It is no surprise that one of the greatest problems present is lack of communications between Chinese and American students. Unfortunately, there is little I can write that is not already generally acknowledged. It is simply impossible for meaningful interaction to occur if students are only found to be in their familiar groupings. It must be the responsibility of the individual to take the initiative in acquainting himself with others before the familiar friendships reassert their dominance."

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THAT PROMISETH GREAT RICHES AND THE ACCLAIME OF ALL...

AND HE WORKETH ON HIS ACT FOR MANY HOURS...

WHICH ALSO WAS HIS LAST...

ENTRANCED BECAME THE KNIGHT, AND HE PURCHASETH THE 10 TUNES FOR TWO SIX-PACKS OF SCHAEFFER BEER HE CARRIED...

WHEN YOU'RE HAVING MORE THAN ONE


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February 28 at the Placement Office

An Equal Opportunity Employer M/F
Dormcon decries rent hike

By Lee Giguere

The Dormitory Council, in the face of apparently inscrutable rent hikes, is considering a proposal that would officially state its displeasure with the rising dormitory costs.

According to Larry Eisenberg, "74, Burton House President, who introduced the motion at last Thursday's Dormcon meeting, the proposal is aimed at ensuring the increases will be rolled up for consideration at the next Dormcon meeting, slated for the end of the month.

The measure, Eisenberg explained, was in part an effort to bolster Dormcon's credibility among students; however, he admitted that "there's not too much we can do."

Mike Wilson, Dormcon President, also admitted that in terms of practical effects, the measure "wasn't mean anything," but said it was instead a "statement of principle."

It is "most particularly likely" that the increases will be rolled back, said Wilson, who is a member of the joint student-administration committee that prepared next year's dormitory budget. He added, however, that the committee could be overruled by the top administration, for example President Jerome Wiener or Chancellor Paul Gray.

Since it is the top administration that sets the break-even policy, Wilson stated, the case would be brought to them. He stressed that the educational value of living groups was a point in favor of abandoning the break-even policy, although he was pessimistic about the chances of anything being done to change it.

Discussing the budget planning process, Wilson noted that students were valuable in pointing out where costs might be cut. He commented that the students on the committee were able to notice some things that the administrators didn't. Eisenberg, elaborating on his proposal, stated that it would ask the administration to search for other ways to finance dormitory payments. Eisenberg, said Wilson, would be willing to assist in the process.

The preparation of this year's housing budget came under fire last week by Baker residents, who claimed that they were denied representation in the process, even though four students, Wilson, George Phillips, Chairman of the Ashdown Executive Committee, Marica Keyes, President of McCormick, and Paul Afkali, President of MacGregor, served on the Committee.

This year, students were involved in the decision-making process in the Housing Office at an early stage, and according to Housing Office officials they worked with the same information as the administration.

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CAMPUS INTERVIEWS
March 9, 10, 1972
Contact College Placement Office to arrange interview appointment.

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"Law Board Review Center of N.Y., Inc." 4525 Henry Hudson Parkway
Riverdale, New York 10471
Above: At night, the Green Building takes on the aspect of a punched computer card held up to the light.

Left: A telephoto shot of the new Hancock Building from the top of the Prudential Building, taken with available light.

shots in the dark

Below: A panorama of the Institute and environs, again taken from the top of the Pru. The lighting, consisting of strobes totalling more than five million candlepower, is courtesy of "Doc" Edgerton. Strobes are located behind the photographer, at lower right on the Charles, and in the Great Court.

Photos by Harold Townshapen
**Cagers rebound to big win**

By Mike Milner

The last week has been an eventful one for the varsity basketball squad. On Wednesday the 16th, the Tufts Jumbos convincingly scored a 87-70 win over the visiting Tufts Jumbos. The Tufts game left little doubt as to which team was superior, with Tufts' 6'6" center Reggie Graham ripping down 23 rebounds to trigger the Jumbos' running game. No less than six Tufts players hit double figures in the high scoring contest. Harold Brown '72 led MIT with 26 points as he moved up on the 1458 point scoring record set by now-assistant coach Dave James '66.

The JV travelled by MBTA Harold Brown '72 led MIT with 26 points in the high scoring contest. Last Monday night, the junior varsity (varsity the game and their coach sent them at the Engineers like a downed sailboat. No less than six Tufts players hit double figures in the high scoring contest. Harold Brown '72 led MIT with 26 points as he moved up on the 1458 point scoring record set by now-assistant coach Dave James '66.

**Ross Smith elevated to ECAC presidency**

Professor Ross H. "Jim" Smith, MIT's Director of Athletics and the chief formulator of the Institute's novel athletic/physical education philosophy, has been elected president of the Eastern College Athletic Conference (ECAC). Smith's election was confirmed by 208 colleges.

Professor Ross Smith has served a president of both the Eastern Association of Rowing and the New England College Athletic Conference. He was chairman of the NCAA College Division Swimming Championships in 1965 and 66.

In rowing, MIT's traditional sport, Smith has had the greatest impact. He was an NCAA representative on the US Olympic Rowing Committee for the '68 Olympics, and chaired the committee that established the National Rowing Development Center at the University of Washington and at MIT.

Professor Smith should provide an interesting influence on the ECAC. MIT's liberal "athletically oriented" program contracts highly with many of the Eastern schools where athletic scholarships and the spectator gate receipts are a way of life.

**Gym tops Dartmouth; set for New Englands**

Neil Davies '74 does his flying discount off the high bar in the MIT-Gartment meet last Sunday. The tech varsity won 121.35 to over the Ivey boys, their season record to 7-1. The Tech's athleticism, set for New Englands.

It's now 7-1. That's right. The gymnastics team has now won six in a row to bring its win-loss record on 7-1. The victory last Sunday was neither the roughest nor the best of the season, but it was the most gratifying, beating Dartmouth's number-one gym rival, Dartmouth. The defeat to win this meet was evident on both sides, as Dartmouth brought in one gymnast who had not competed in a year and the MIT bench was a little lighter than usual. Even with the extra man, Dartmouth was no match for the Techs. Dartmouth went 113.35 to 114.35.

MIT jumped into the lead at the beginning. Captain Dave Beck '72 with 11.5 took first. He was followed by Bob Beck '74 with 11.4 on floor exercise to open a two-point lead. It was Barron's best performance of the year with 7.0. The second event, pommel horse, tends to be the event most affected by jitters in clutch situations. This was Sunday, though the scores did not entirely indicate it. All three MIT horse men were off form to some degree, but Paul Boyer '73 and Dennis Dubro '73 still rallied in first and third. This increased the MIT lead by a fraction.

The rings were all Dartmouth's, specifically Mike Panco '74's. MIT's Jarvis Middlesworth '74, Dave Miller '72 and Jarvis '74 performed close to expectations, perhaps just a little worse. Dave missed one trick at the beginning, and Jarvis missed one trick at the end, otherwise they did fine jobs. Jarvis got second and Dave tied for third. First went to Panco of Dartmouth for a fantastic routine that earned a 9.3 from the judges. That one man single-handedly put Dartmouth ahead for the only time of the meet. They were by a quarter of a point after the first half. The MIT vaulters put the team back into the lead by half a point. Alan Razet '75 nosed out the leader and Austin '74 for first place. Unusually low scores from the judges gave the Techs 22.15 to Dartmouth's 23.1. The parallels bars showed the strong team side of the sport in contrast to the rings. MIT took the first four places as Bill pulled in first with 4.5. Andy Redell '74 edged out Ratzl for second, and Beck also beat all the visitors. This increased the lead to five points, and effectively finished Dartmouth.

The spectators did get a chance to watch another Dartmouth super jock. Their best high bar man scored 8.55. MIT, though, got second from Neil Davies '74 and third from Austin. This produced a new tech high bar record of 19.65 and further increased the MIT lead to its final seven points.

Saturday the team travels to Connecticut to meet Coast Guard and Quinnipiac College. Next week they host the New England's. At this point they have seen all the teams they will meet in New Englands. That they have lost only one indicates a good chance for a second place finish, and a possibility for coming up first.