Student job agency formed

By Barb Moore

The office for student employment formed as a "learning hour" operation, has been established under the aegis of the Student Employment Agency, Lawrence Maguire, in charge of the aid of officer, has been appointed Director of Student Employment Agency.

Maguire stated that there are two "resource pool" around MIT that will be utilized: the talented students who need a term-time job, and "jobs that could use these talents."

Maguire hopes to prove a contact between the potential employer and employee, avoiding the efficiencies involved in totally student initiated contact.

Many students take term-time jobs as a part of their financial aid, however, he must find himself. For some, the first term at the Institute, the prospect of soliciting a job can be intimidating.

The agency set up will help in this respect, in that it will provide the contact between student and employer.

The program will favor students on financial aid, however. Every student looking for a job, and not just the financial aid candidates, will be considered equally for available positions.

Civil liberties can survive emergencies, prof states

By Margaret Brandeau

"We're not anywhere close to what would actually, realistically be called a repressive society, " said Alan Dershowitz, professor of law at Harvard University.

Dershowitz made this statement yesterday, when asked in a talk to the Cambridge Forum entitled "Can Civil Liberties Survive National Emergency?"

"We're still "freer society in the world," he noted. "Liberty, however, like life, needs to be sustainable to it."

According to Dershowitz, while our Constitution can do something to preserve our civil liberties, we should, we not rely on judges to champion our rights in times of national emergency.

When a President suspends in postural national safeguards," he said, "the courts will generally not act, but we must do something to protect our liberties."

Dershowitz added that fortunately, there has always been a group of Americans who have been willing to challenge high-handed acts of the government, even in time of emergency.

"Richard Nixon is not the first President in our history to ever appear to defy judicial inquiry. The Constitution was formed on the theory that this nation is so right to expect always to have wise and judicious rulers, he added."

Dershowitz stated that this administration has "gazed up to the line of the Constitution, has decided, he claimed, has ended beyond the line of the Constitution."

The goal of the agency is to supply better paying more satisfying jobs for students. Maguire will attempt to match jobs to the student's capabilities, rather than leaving it to "random chance" that the abilities will catch up the job's requirement.

The job board, which has been one of means of alerting students to available jobs, will be replaced by a file of positions to be filled. There will also be a file kept on the pool of students seeking term-time employment.

The board will be used to post one-time jobs, such as baby sitting.

The center will be for the purpose of communication. Maguire plans to "get out of his way" to obtain employment for interested students.

Summer jobs will be handled also through the Student Employment Agency. The student will fill out a reference card, which will be used in matching up summer jobs. Maguire has already begun soliciting positions for students this summer.

As Maguire stated, "We don't want to give someone a job in Toledo, just because he's from Toledo." Maguire wants the agency to avoid the large systems which are generally used in such offices, and instead rely on personal contact. He wants to connect the systems "that are causing more trouble than they are helping." The agency wants to develop its resources in such a way that they can back up their "service aspect.

According to Maguire, "UROP has already done some research on the idea of this," and Maguire hopes to provide service for the students involved.

Work study will be interrelated with the employment agency. The student agency will be in charge of the work study program. It will, however, be a basic part of the employment office.

Maguire and those students staff the office at this time. The student members of the staff are Thad Byrd '74, Barbara Miglierina '76, and Kevin Campbell '76. As Miglierina stated, the "conclusion of the staff of the part of the staff" is a major asset.

CAP proposes calendar change

By Mike McNamara

The Committee on Academic Performance Work Shop offers a solution to the faculty next week proposal to change the Spring Term calendar of this year.

According to a statement presented by professor choosing the starting and ending dates of the spring term "to make it more thorough consideration to degree candidates qualifications and to improve the communication between the Institute and degree candidates prior to Commencement."

The proposed change, which Smith concludes "is one of the options we will present to the faculty," the registrar's office is under "quite a bit of pressure" to get the grades out so that department candidates can consider the eligibility of degree candidates. "A little more time," he said, "will give us a chance to catch errors, and will less a lot of errors we make of themselves."

Smith also cited the possibility of breakdown in the current system. "There's just no time to repair things, "he said, "at a talk, "he said, "if something went wrong, say with the Registrar's system, there would be no time to fix it and straighten the situation out before candidates have to be concerned."

A student member of the CAP, Tom Vidi '76, told The Tech that some problems had surfaced already with the new plan. Some students who were staying home over FAP, according to Vidiu, have already made reservations to fly back to the Insitute on a "when-Demas" basis. Thus students would have to pay "up to fifty dollars more." Vidiu plans to change their reservations so as to fly to Boston five days earlier.

Other students who Vidiu had spoken to said that this plan might interfere with their plans to work during FAP. Vidiu states that "the committee is considering what we can do about these problems, but we need more student feedback."

Alternative Plans

Some have suggested that the CAP had considered an alternative plan that "would eliminate some of these difficulties, but might cause other ones." This plan, according to Smith, is to change the two four-day holidays in the spring term to one on which students could stay home on the day of the week. Smith hopes to change these dates in time of Spring Term.

The effect of the motion, if adopted, would be to more Registration Day for the Spring Term from February 4, 1974, to January 30, 1974. The Independent Activities Period would end on May 19 instead of May 17.

Smith stated that the change was first proposed because of "possibilities of error in the current system," of considering candidates for degrees. "There have been few cases where something has actually gone wrong," Smith said, "but there's always the chance that, with only a week to get grades to be recorded, and with so many students, that a lot of errors could be made."

Recently, Smith explained, the Registrar's office is under "quite a bit of pressure" to get the grades out so that department candidates can consider the eligibility of degree candidates. "A little more time," he said, "will give us a chance to catch errors, and will less a lot of errors we make of themselves."

The new system would be used to post the board, which has been few cases where something has actually gone wrong." Smith said, "but there's always the chance that, with only a week to get grades to be recorded, and with so many students, that a lot of errors could be made."

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The effect of the motion, if adopted, would be to more Registration Day for the Spring Term from February 4, 1974, to January 30, 1974. The Independent Activities Period would end on May 18 instead of May 15. Other activities at the end of term would be appropriately rescheduled. Commencement would remain on May 19.

The implications of this calendar change have been discussed by the CAP, the Commencement Committee, the Dean of the Graduate School, the Chairman of the Faculty and the Registrar. A report of these discussions and a detailed schedule of dates will be sent to the Faculty with the call to the November Meeting.
Planning underway for Independent Activities

By Henry Frechter

The 1974 Independent Activities Period will soon be upon us, and many people, especially freshmen, are wondering what is all the hoopla about. "It is a fine program for the MIT community and I, personally, am not just a˜ing it to be a fine program." says Jean Frechter. While it's true that the Independent Activities Period is very big and important, there is no need to sell MIT; it's just a fine program for the MIT community.

The Independent Activities Period is likely to be the best thing about MIT that you will experience here. It is a period of time when students have the opportunity to do anything they want to do. They can take courses that are not offered by the MIT curriculum, they can do research projects, they can do service projects, they can do anything they want to do.

The Independent Activities Period is a time for students to explore their interests, to learn new things, to develop new skills, to meet new people, to have fun, and to enjoy the MIT community.

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Aid office simplifies applications

By Jules Mellor

The MIT Student Aid Office has recently revised its requirements for new and renewal aid applications for 1974-75.

According to Daniel T. Langdale, Assistant Director of Financial Aid, and Leonard V. Gallagher, Associate Director of Student Financial Aid, the Parent's Confidential Statement (PCS) will now be required only from parents of dependent students and foreign students. Upperclassmen wishing to renew aid will submit only a photocopy of their parent's 1973 income tax return.

Parents will also be asked to authorize the Student Aid Office to obtain another copy of this return directly from the Internal Revenue Service.

Langdale said that these changes would greatly simplify the appraisal of a student's need.

"The Parents will no longer have to 'translate' income information to fit the PCS format and we'll no longer have to 'design' the information... After the PCS tends to deplete most of what we can get directly from the tax return. Eliminating the PCS simply relieves us of having to check one against the other."

Gallagher added that the photocopy would enable the Aid Office to analyze each applicant's need during the spring so that we won't have to wait until the IRS sends as the certified tax return to get started."

He said that in this way they could hope to provide award notices direct to students for next year within three or four weeks after receipt of the photocopy tax return.

"Asking for an additional copy from the IRS doesn't mean we expect everyone to send in false tax returns," Gallagher added. "We just have to respond to the community's concern as to whether our system is equitable or not.... We're not necessarily going to check every photocopy but at least we can check one if we need to."

In order to complement the photocopy, parents will also be asked to fill out a supplementary form. "This form gets at any necessary information that the tax return might have missed. It doesn't contain all the unspecified historical data that the PCS does such as income from the previous two years. It also allows room for any statements of estimating circumstances, things which just can't be put into one little block."

Every student receiving aid will be sent renewal forms and instructions in December by mail. Students not currently receiving aid who wish to apply for next year will be able to pick up the needed forms after December 10 in Rooms 5-119.

When asked why the Student Aid Office is planning to mail these forms instead of simply mailing them available like last year, Langdale replied that this would hopefully result in a saving of clerical work. "Ninety-nine percent of the questions usually asked by students could be answered by the instructions sent out with the forms. Thus we hope that only the other one percent need to call.

"Also, this way we can be assured that all current aid recipients have the necessary information. It's a little more positive response to those handful of people who, despite everything we do, turn up at registration and ask what we're going to do about their aid for that year. Now there's no excuse for them not to know what's going on."

Gallagher concluded, "By cutting down on the time spent on income data, we hope to have more time for students on a personal basis."

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TENNIS: Game of Motion
by Gene Scott, N.Y.

Tennis Player, B Tournament Promoter

In its pages, Scott explores the increasing popularity of tennis today, delves into the game's rich and royal past, and reveals the mental and physical attributes of today's greatest players. Tennis: Game of Motion is profusely illustrated by the action photographs of two outstanding sportswomen, Fred Kaplen and Melchoir DiGiacomo, whose combined camera prowess mirrors the very soul and essence of the game.

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1 PROGRAM OF TRANSCRIPTIONS
November 29
ROSE TAYLOR piano solo
CAGE-HARRISON Suite for solo piano
MONTEVERDI-Chiff Lamento di Aramina
SCHUMANN-KAVEL Carnival (excerpt)
BRAHMS-SCHOENBERG Piano quartet in G minor, op. 25

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2 WHERE WE'RE AT
January 24 - subject to be announced
BOULEZ Eclats
O. KNULSEN Symphony no. 3
M. FELDMAN Cells and orchestra
S. REICH Music for mallet instruments

3 THREE CENTURIES
OF DRAMA IN MUSIC
April 1
WENDY HILTON dancer
CATHY BERBERIAN mezzo-soprano
MICHAEL WAGER speaker
SCHUMANN, WEBER melodramas with piano
C. P. E. BACH BERN Recital programs subject to change

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Second Balcony, $6 Single ticket prices:
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Tickets available at Symphony Hall (266-1492)
Health dept. cites violations

By Howard D. Sizer

The Ploughman's Pub and the Coffee Shop on the third floor of the Herrmann Building recently installed several sanitation devices at the request of the Cambridge Health Department. Joseph DeLeo, the new Health Inspector for the MIT area, visited the small food-dispensing agents on campus in October and cited these two for several violations.

DeLeo's unexpected appearance on campus proved to be the first health inspection in over a year. The two vendors had previously been unaware of the violations due to a failure of past inspections to specify any infractions according to Phil Doucette of Ploughman's, "It is apparent that the extent to which the rules are enforced depends on the inspector."

In order to comply with the health inspection ratings, the Ploughman's Pub invested over $300 in renovations. The total cost of the sanitation improvements poses a difficult burden on the establishment since it operates with a small capital budget.

There were two principal regulations that were not previously followed: 1. Food should be protected from people sneezing and coughing; and 2. All potentially hazardous foods should be served at either below 45 degrees or above 150 degrees. The Pub had to install "sneeze guards" in order to isolate a person's head from the food. This is a necessity for the buffet-style set-up employed by the Pub.

In order to keep all food and beverages at the required serving temperatures, the Pub purchased a used ice machine. The coffee shop was forced to serve all pastries under a plastic lid, while both establishments made provisions to keep plastic utensils and cups in appropriate containers.

After twenty working days DeLeo returned and approved the sanitary installations. The Tech, in an attempt to find out why the entire campus was not given equal consideration, was unable to contact Mr. DeLeo for comment.
the tech arts section

by Bob Ross

Jackson Browne (see page 6)
The New Season, Part III.

Since I wrote part III a couple weeks ago, the three networks have begun to announce early casualties, and I had to check that one too before I was sure I wasn't reviewing any shows that no longer exist. Fortunately, most of the cancellations were going to be in part IV; now they can happily be forgotten. They include: Cattlemen, Love Story, Donna, and Needle and Pins on NBC; The New Perry Mason, Calvete's Day, and Roll Out on CBS, and the first show to be dropped, ABC's inane Bob & Ted & Carol & Alice. A host of others will follow, including two veteran series, the FBI and Doonesbury. In fact, the new season can count on only two honest-to-Nielsen winners: Kojak, which finished in top show status, and The Girl With Something Extra, which is holding steady in the twent...
October 19th brought the Leningrad Philharmonic to Symphony Hall. Presumably it was a political protest against Soviet involvement in the Middle East that kept the hall from being completely filled, but the large orchestra beautifully balanced and brilliant orchestra enthusiastically. The Leningrad, though insufficiently known in the West, is not only the Soviet Union's finest orchestra but one of the world's greatest, and they verified their glowing reputation on this occasion. The sound of the orchestra was uniquely Russian, with deep, rich strings and powerful brasses. Gomady Roshdievsinsky led persuasive performances of Shostakovich's 20th and Tchaikovsky's 5th Symphonies. The Shostakovich, his latest symphony, was a puzzling piece, with fragments of the William Tell Overture providing a probable reminiscence. Nevertheless, the last three movements were disappointing; in the Russian manner in the blood of the Leningrad orchestra is the world's greatest, with great length. The Tchaikovsky received a rousing rendition; it was a fair enough performance, but one of the world's greatest orchestras was not only the Soviet Union's finest orchestra, but one of the world's greatest, and they verified their glowing reputation on this occasion. Thile sound of the orchestra was uniquely Russian, with deep, rich strings and powerful brasses. Gomady Roshdievsinsky led persuasive performances of Shostakovich's 20th and Tchaikovsky's 5th Symphonies. The Shostakovich, his latest symphony, was a puzzling piece, with fragments of the William Tell Overture providing a probable reminiscence. Nevertheless, the last three movements were disappointing; in the Russian manner in the blood of the Leningrad orchestra is the world's greatest, with great length. The Tchaikovsky received a rousing rendition; it was a fair enough performance, but one of the world's greatest orchestras was not only the Soviet Union's finest orchestra, but one of the world's greatest, and they verified their glowing reputation on this occasion.

Early music is a strong interest of the Wellesley music department, so it comes as no surprise to see a thriving performance ensemble for Renaissance music on authentic instruments. The Collegium is open to MIT students, and one (or both) had painful problems. The viola da gamba soloist, Mozart's 'Il Bacio', was worth of it. The chorus singing was precise, clear, and unaffected, and the orchestra (composed of London free-lancers) was superb. Particularly impressive was the clarino trumpet playing, which for once did not resemble an auditory tightrope walk—players really seemed comfortable in Bach's stratospheric register. The continuo organ was somewhat indistinct, which was probably a good thing, as it was an electronic instrument instead of a real pipe organ. Nonmusical records plan to bring out a new recording by this group in a few months (Bach and Handel cantatas), and this at least is a representative indication of their calibre of performance, it should be well worth hearing.

The Metropolitan Opera in New York has finally mounted Berlioz's epic opera Les Troyens, the first major product of its new Chaplin/Kubelik regime. Essentially complete in this version, the opera opens at seven and does not end until after midnight, it is a magnificent total experience. Rafael Kubelik's conducting was frankly somewhat of a disappointment, lacking in the magic that Colin Davis found in this score in his Philips recording. (I understand that John Nelson, a young conductor who prepared the chorus at the Met, made quite a sensation when he took over for the aging Kubelik at a concert of performances.) The singing, however, was excellent, with special honors due to Christa Ludwig as Didon and to Jon Vickers as Aeneas. The staging takes full advantage of the large motorized turntable on the Met stage, and promises to deal with the question of whether or not you agree with his conclusions, these have been immensely provocative and fascinating lecturers, and the last one should be especially exciting.

The Cambridge Society for Early Music has always been performing the sort of repertoire that other organizations were not doing during those years. The last concert of its (short) season will be presented Monday night, November 19, at 8:30 pm. Featuring the concert is John Capes's Duo for two pipes and works by Siberian, Schumann-Ravels, and Brahms-Schoenberg. The full recordings of at least some of the pieces will be performed.

The Kenmore Square Cinema is again showing Walt Disney's Fantasia. This film has become a mystery on many occasions, but its musical value should not be allowed to escape notice. The Perotin piece will appear on too many other concert programs in the next future. Perhaps as a kind of balance, the rest of the program consists of late baroque and classical repertoire. Cantata 63 of Bach, Choronzon assiette d'agnus, is for Christmas, although it is not a part of the "Christmas Oratorio," and it has the characteristically festive character of Christmas works. Fireworks are planned in connection with the cantata (number 202) for soprano solo, and it will be sung by Lane Bryden.

Perhaps as a kind of balance, the rest of the program consists of late baroque and classical repertoire. Cantata 63 of Bach, Choronzon assiette d'agnus, is for Christmas, although it is not a part of the "Christmas Oratorio," and it has the characteristically festive character of Christmas works. Fireworks are planned in connection with the cantata (number 202) for soprano solo, and it will be sung by Lane Bryden. Handel's Coronation Anthem The King Shall Rejoice is also a festive trumpets and drums piece, and it is a joyous and invigorating concert, and it is the kind of repertoire that other organizations can see on medieval manuscripts, particularly for the first letter of a page.
People call him Maurice
by Mark Astolfi
The Joker — Steve Miller Band (Capitol)


Those are among my favorites, I'm sure you have yours. In his heyday, few could top Steve Miller's brilliant, electric pop gams. But then the Band, Bob Seger, Lenny Kravitz, Tom Petty, splintered, and the past couple of years have seen nothing from Steve save two tepid-to-boring LPs and a sketchy 2-Album greatest hits set. The Joker is definitely a strong first step in the new comeback trail, but it would be premature to proclaim flat out "Steve Miller is back."

The latest edition of the S.M.Band includes Dickie Thompson (keyboards) and Gerald Johnson (bass) from Recall the Beginning, and John King (drums). The star provides amiable, crystal clear vocals and no nonsense guitar licks. They are tight in the studio, although their stage act leaves much to be desired (two of the cuts are recorded live, one in Philadelphia, the other one at our own Orpheum). For the most part, Steve does'nt try to be the Moody Blues, sticking to pseudo-country and funky, upbeat Boulders. The most satisfying cut is "Wake Up," a gentle little ballad with its "roll" and has an ampersand in the title that could look like his first. "The Joker" is a melody slightly melancholy, but very deliberate piece, displaying brilliant competence, if not inspiration. It's getting its share of airplay, even though "middle-nighter" is censored out by all stations as per the FCC's anti-drugtyping ruling.

Streisand is probably not one being "Sugar Babe," an original and a good bet for follow-up single, with a nice guitar hook and slight CSNY overtones, and "Something To Believe In" is a quiet C&W derivative with Sneaky Pete's melody, amid popular steel, and nice harmonies. The rest of the album is very ordinary, with an occasional good guitar riff here, a nice bass run there. Steve still can't get it on like his old bandmate Roy Sago, Bob Seger or Jimi Hendrix. This album is a step in the right direction, a break with the past. With beautiful cover art, The Joker is Steve's staidest, sweetest product in three years.

Boulders move Rock
by Mark Astolfi

Boulders — Roy Wood (United Artists)

Racial readers of The Tech Arts Section know all too well who Roy Wood is. I love about him enough, Ex-bassist of the perhaps the best rock band England ever produced (or at least rock and roll the Beatles and Stones), namely the Move, Roy was and is one of the most prolific musical geniuses ever to result from what started as an attempt by a one-man-band to stay alive. "Rock Around The Clock." Yes, what I'm talking about starts with "rock" and ends with "roll" and has an ampersand in the middle. This solo album was recorded early in 1972, and has previously been available in this country only as an import. Move fans prayed and intoned to get into, very dense, very tumultuous, very original. Move fans were unknown.

Two other tunes are worthy of note one being "Sugar Babe," an original and a great bet for follow-up single, with a nice guitar hook and slight CSNY overtones, and "Something To Believe In" is a quiet C&W derivative with Sneaky Pete's melody, amid popular steel, and nice harmonies. The rest of the album is very ordinary, with an occasional good guitar riff here, a nice bass run there. Steve still can't get it on like his old bandmate Roy Sago, Bob Seger or Jimi Hendrix. This album is a step in the right direction, a break with the past. With beautiful cover art, The Joker is Steve's staidest, sweetest product in three years.
David Crosby

To say the least, the way the last Sunday of October began did not forebode well. Warned against his opening (David Crosby and Graham Nash, David Blue, had been boring to a most irritating degree), when Crosby and Nash finally made it to the stage, their opening harmonies on "Big Brother" were like the proverbial chalk on the blackboard. But just as rapidly things began to turn appreciably. Moving into intense electric numbers like "Wooden Ships" and "Grave Concern" (mocking of the jamming on 4-Way Street), David Crosby and Graham Nash soon had the audience in full control.

In a surprising contrast to two years earlier, when the pair played an acoustic gig, only to be panned by friends Steve Stills and Neil Young, Crosby and Nash played with an electric band (featuring David Lindley, Johnny Barbata, and Tim Drummond) that was surprisingly good for only the second stop on a tour. No, neither Stills nor Young showed up, but the long show featured highlights of Crosby's solo version of Joni Mitchell's "For Free" and the undercurrent of politicizing that ran through the evening finally climaxing in a show-ending "What Are Their Names?/Chicago." The lack of fan response and the absence of the S and Y of CSNY may have disappointed some, but the overwhelming power of the performance,Bayes particularly around Crosby's dynamic personality, left very little to be desired.

Graham Nash
The Aerosmith and The Mott

by Mark Balloon

Saturday night at the Orpheum wasn't just another rock concert for me. It was a night to step back in time. Waiting out the "confrontation" for the opening act, I suddenly noticed that I was standing in vonce, courtesy of the wall-to-wall crowd standing behind me, who obviously couldn't hold his chemicals. Inside, there was a sense of unification, as we all found ourselves on the floor in front of my seat, which I continually avoided. Additionally, I killed a balloon at half-time with a previously blunted naive, but when it came to me, something made me swoon it. I felt the spirit of the balloon entering my body, which is why I've changed my name to Mark Balloon. But the concert, get to the concert. It was a gooide, Aerosmith and Mott the Hoople--American punk versus British petty boys. I've said it before and I'll say it again, the Hoople has a troubl, consistent solo act, and for my money Aerosmith stole the show.

Admittedly Aerosmith's lead vocalist, Steven Tyler took his Jagger mimicry a step too far, with his sparkly eye-shadow, pearl rings, silver lame Panteloni, and a rap to just below the navel, and practically the same floppy hat Mick wore for "Angie" on the "Let It Be" album. Steve, who looks startlingly much like Wellesley junior Maureen Smith (the Reading one), except with taller tits, has had his Jagger dance moves down OK, subdue the microphone simulative organ he may 4 times, and did a startling mid-set solo on "LP: "Whizz Kid," "Violence," and "Honolouche Boogie." The version of their classic "Rock and Roll Queen," was just as good as "All the Young Dudes." Their lead vocals are crushed beneath the guitar force-field. Aerosmith also did two new songs from their upcoming album, and they were kinda tame; the same old riff, no matter how great the first time around, are bound to lose the rest of the rehearsal. With the obvious guitar interplay between Perry and Brad Whitford, and told vocals and rhythm unit, it was a tragi-music; the judges gave him only 5.

But why struggle, they put down a hell of a performance musically, doing all the album cuts save "Movin' Out," opening with "Rag Doll." It was rock out, the best, "Mama Kin," for last. Steve is a dynamic performer, his vocals are raced well to the front, unlike Hoople's Hunter, whose lead vocals are crushed beneath the guitar force-field. Aerosmith also did two new tunes from their upcoming album, and they were kinda tame; the same old riff, no matter how great the first time around, are bound to lose the rest of the rehearsal. With the obvious guitar interplay between Perry and Brad Whitford, and told vocals and rhythm unit, it was a tragi-music; the judges gave him only 5.

Introspection -- Thia Van Leer (Columbia)

This is a strange, strange album, certainly a far cry from the lady's previous work. Mott are a band, being Dutch, organist/flautist/vocalist of Focus and co-author of "Focus II." Which is just as well. With his Moll Boisen's help, he's an arrogant asshole, radiating more audience-aimed hot, he's hot, but on this evening to step in things. Waiting out in the Wide Wide World of War (The Committee)(Capricorn)

One Live Budgie -- Budgie (Atco)

Two ex-YM members, Pete Ralston(Flash) and Tony Kaye(Budgie) ensure up two main elements of early 60's rock, the horns, the rhythm section. For my money, the best Yes imitation came out a year ago, and a half ago, on Captain: Whirlwind. Unfortunately, these two latent fixations were ignored and forgotten, unjustly so. I ask you, would either Banks on Kates have the audacity to include "Flasher" in their live act? Of course not. If the real thing isn't good enough for you, forget it. Best White Album's flash, Budgie and Flash don't cut it.

On the Road -- Traffic (Island)

Recorded live in Germany, this record is woefully uninspired, which is where Traffic fit at these dates. Even 16 minutes of "Class Of '69" (Traffic's debut) falls flat. After and I defended their last album, Shootout At The Fantasy Factory, against its many and vehement detractors, they dump a load like this. Light up and leave them alone, to paraphrase.

Mott the Hoople (with former guitarist Mick Ralphs)

Their new lead vocalist, replacing Mick Ralphs. Well, it turns out he's actually the one who replaced Spooky Tooth, recorded some solo material, did a spell with Steed's Wheel, and has been with the Hoople only four weeks. With the possible exception of the Walker's Randy Bishop, Lake is the cock's prettiest male guitarist, looking like Dave Bowie's maiden aunt, or maybe Barbara Bain. He's sort of in between the sex, but flashier than Ralphs and ultimately misses the Hoople's live act. They did some favorites reasonably well, none-the-less neglecting three tracks off their last LP, "Whiz Kid," "Violence," and "Honolouche Boogie." The version of their classic "Rock and Roll Queen," was just as good as "All the Young Dudes."
Radioactive wastes are a problem

By Storm Kaufmann

One major problem with nuclear power that no one denies is the production of large quantities of intensely radioactive wastes. The AEC has yet to resolve the question of whether or not to build reactors.

All nuclear reactors produce "plutonium". Upon fission, the fission material (uranium-233 or plutonium-239) releases energy while splitting into two fragments of more-or-less equal mass. Each fragment (the fission products) is unstable, decaying with half-lives from seconds to thousands of years and releasing energetic gamma rays and beta particles. The fallout from atomic weapons, such as strontium-90 and cesium-137, is the very same fission products released by a nuclear reactor.

While a reactor is operating, the fission products should be safely held in the fuel and contained by the fuel cladding and core pressure vessel. Accidents such as a LOCA (Loss of Coolant Accident) can release fission products into the environment. However, the reactor must be designed to prevent such an accident from occurring.

Fuel reprocessing involves a series of chemical separations complicated by the intense radioactivity of the material. The objective is to recover usable fuel for plutonium from the blanket of a breeder reactor and concentrate the hazardous fission products. Then, a way to dispose of the radwaste must be found.

The two ways to store radwaste are in liquid tanks or as solids in casks, the two ways to ensure against a dangerous release are constant surveillance and secure long-term storage. The AEC is using both approaches.

Large quantities of radwaste were produced during the last 20 years as a result of the production of plutonium for our nuclear arsenal. The major part of these wastes are stored as liquid at the Hanford, Washington reprocessing plant. The Hanford plant has recently received much unfavorable publicity over spills of the liquid wastes.

The approximately 40 million gallons of waste stored at Hanford is contained in tanks, some of which are more than 20 years old. The major spill in June of this year occurred near the plant. In this case, seepage continued for a month and a half and about a third of the $3,000,000,000 of liquid waste had leaked into the soil before corrective action was taken. The problem was that reports of decreasing levels became buried under the mess of paperwork of day-to-day operations.

Since then, the AEC has beefed up precautions at Hanford. Leak detectors are being installed, and tanks and radiation levels are now read thrice daily. However, it is not certain that it is recognized that some of them are still leaking small quantities of radwaste. The AEC answer to the liquid waste problem is solidification, but that program has fallen behind schedule and will not be completed until at least 1976.

AEC commissioner Clarence Linas has expressed that the measures taken for civiluse wastes will be more stringent. Most of these wastes are solidified immediately after concentration at the reprocessing plant. They are then sent to the AEC for long-term storage. The AEC has considered two methods for storing the vast quantities of radwaste which will soon pour out of the nuclear reactors. Higher-level waste from commercial reactors will increase to 4.5 million gallons by 1980 and 60 million gallons by 2000. Solidification substantially reduces the volume but the waste, often huge concrete and steel cylinders, might be kept where corrosion and exposure to vapor is minimal.

Constant surveillance storage involves construction of bunker-like buildings which can be sealed after being filled with waste containers. However, these buildings will have to be inspected and watched for deterioration for the tens of thousands of years that are required for radwastes to decay to safe levels. Opponents state that this is too much of a burden to place on subsequent generations and paint out the absence of long-term stability of past civilizations.

The more favored method being studied is caging wastes in secure geologic formations. Salt mines. Salt mines appear to meet the requirements of long-term stability and absence of water seepage, but investigation of the original site at Lyons, Kansas proved a fiasco when it was found that the salt was constantly shifting. The AEC believes it has found a more suitable formation and is shoring up old formations now.

More exotic proposals for waste disposal have been offered, such as storing the radwastes in space. However, considering the volumes that soon will be produced and the irrefusal and high costs of rockets, this is highly impractical.

It is certain that this is a problem which will have to be solved before the nuclear program can become economically feasible. But at the present time, no feasible answer has been found.

Radioactive wastes are a problem
"US not repressive prof states"

Continued from page 1

legitimate, though perhaps sometimes overestimated. He added that, "In the past, presidents have seized upon emergencies to allocate more powers than they needed."

Presidents have to decide between personal and institutional crises. For certain powers to be suspended in times of emergency, he said, every branch of the government should approve of such a move.

Dershowitz believes that President Nixon should be impeached only if he has committed any impeachable offenses. Among these impeachable offenses, he said, would be if the President had been aware of the Watergate cover-up or if he had known of Watergate in advance.

He does not think that Nixon's bombing of Cambodia was an impeachable offense. He said, every President were to be convicted for warring with an innocent nation, we would have very few Presidents who would have been allowed to remain in office.

"I do not try to equate impeachment with unconstitutionality," said Dershowitz.

According to Dershowitz, an investigation of the President should be undertaken, as there is not enough evidence now to decide whether he has, in fact, committed any impeachable offenses.

Dershowitz believes that impeachment should not be a political move, and that it ought to be used very sparingly.

Of Gerald Ford, Dershowitz said, "I think he's a man of limited vision, of limited belief in the Constitution. I think that the Vice-President should be a man who supports the Constitution fully."

Dershowitz added however, that he can't find any basis for prosecuting Ford. "In a democracy we have to support what the people give us. The people gave us Nixon, and Nixon gave us Ford."

Alan Dershowitz teaches criminal law and crime prevention at Harvard Law school. He has also appeared on the television discussion show "The Ad

The controversial Club of Rome study done last year by MIT Professors Jay Forrester and Dennis Meadows, Limits to Growth, was discussed recently by Jasper Ransier. The discussion, part of the Seminar for Foreign Students and Participation in Development, was entitled "The Limits to Growth versus the Third World." It dealt with applying the Club of Rome study's results to developing nations.

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THE TECH FRIDAY, NOVEMBER 16, 1973 PAGE 13
**Technical Notes**

RCA has developed the largest solid state image sensor yet, a possible milestone toward a new generation of miniature TV cameras. The sensor (a charge coupled device, CCD) is a nickel-silver silicon chip containing over 120,000 electronic elements. Future TV cameras employing CCDs could possibly be the size of a cigarette package, and would be rugged, highly reliable, and potentially low in cost. The CCD is expected to be almost immediately cost effective for limited applications requiring its sturdy reliability, but economies will be necessary before public usage becomes widespread. A way the CCD dye works is this: when an image is focused on the CCD, the sensor's electronic elements transform the picture into individual charge transfer techniques. The resulting information can then be processed and displayed as a TV picture. In the RCA CCD, half of the elements form the imaging array, and the other half act for storage and readout.

RCA has created a new chemical compound which could increase a hundredfold the speed of data reading out of the bubble memories being used. Until now, high-powered light sources such as gas lasers were required for optical readout, so non-optical approaches were utilized. These techniques are not only slow but also reduce the inherent data storage capacity by up to 20%. But the new compound permits the employment of light sources as low-powered as light-emitting diodes. This is possible because the reaction occurs ten times more readily than with present memories.

A bubble device consists of a thin film of magnetic garnet especially grown on a non-magnetic. When surrounded by the proper magnetic fields, the garnet film sustains stable, extremely small areas of reversed magnetization, referred to as domains. Although these domains appear as bubbles when viewed under polarized light, they actually are cylinders that can be moved electrically at high speed along predetermined paths past a sensing device. The presence of a bubble represents a one, or an off. To be set by present magnetic-resistive techniques, the 6 micron bubbles must be imprinted 10 times, a requirement that ties up much of the memory area with sensing. RCA engineers have utilized Fessay's rotation loss effect which converts domains to a unique pattern under polarized light so as to detect the presence of a bubble. Bismuth thulium based garnet was found to work successfully with present memories.

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85 papers print editorial calling for impeachment

By Mike McNamee

"The impeachment of Richard Nixon is prerequisite to the restoration of confidence in our system of government," according to an editorial written by the editors of the Amherst Student.

"The President must be impeached," the editorial, which was endorsed by 84 other college newspapers including The Tech (10/26), across the country, stated. "No amount of legal double-talk or political tedium can obscure this fact."

According to Robert Steinbrook, Chairman of the Student, and Robert McCartney, Staff Editor, the editorial, which was written in response to Nixon's firing of Archibald Cox on October 26, was endorsed by papers from 29 states, representing a student population of over one million.

Copies of the editorial, with a list of the endorsing newspapers, were sent to members of Congress last week, and a press release describing the campaign was distributed to the mass media.

According to Steinbrook and McCartney, the editorial was originally sent out to approximately 250 colleges and universities across the country. It was published and endorsed by papers ranging from the Kansas State University Student Collegiate to the Cal Tech Tech to the Yale Daily News. These 85 papers have a total circulation of approximately 700,000 and serve populations totaling over one million.

According to the Student editors, most of the signatory newspapers said that post-impeachment feeling is strong on their campuses. The letter being sent to Congress states:

"At a time when popular communicate delight in discussing nationwide student spotty, Mr. Nixon's repeated abuses of power have rekindled the outrage of the late 1960's...we now commit ourselves to the removal of a President who has forsaken the rule by law."

The editorial charged Nixon with ruling "by fiat and force," and stated that "The mandate of 1972 has been based in a legacy of illegality, hypocrisy and deceit." It went on to state: "The impeachment of Richard Nixon is prerequisite to the restoration of confidence in our system of government."

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THE TECH FRIDAY, NOVEMBER 16, 1973 PAGE 15

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THE TECH FRIDAY, NOVEMBER 16, 1973 PAGE 15
Sailors win 1st Wick regatta

The MIT women's varsity sailing team concluded their fall racing season in fine style as captain Shelley Bernstein '74, with Joan Pendleton '76 crewing, won the first sailing of the Emily L. Wick Trophy Lark Regatta.

The event was sailed on a cold, blustery Saturday at MIT, and four of the six schools entered dropped out before the competition was finished because of capsizes. The Tech crew was the only entry to conclude the day's racing without a single capsize.

Going into what was scheduled to be the last race of the day, MIT led Radcliffe by one point, but the race had to be sailed because neither boat finished properly. In the recall, Bernstein took the start and sailed conservatively to defeat the Radcliffe boat and win the trophy by two points.

The results of the regatta were: MIT 11, Radcliffe 13, Jackson 24, Mt. Holyoke 34, Northeastern 42, and Salem 50. Bernstein's record was 4-2-1-2-1-1.

The men's varsity placed fourth in an invitational at Harvard on Saturday, Paul Ebel '76, with Barbara Bell '77 crewing, sailed in A-Division, placing second, while George Toddi '76, with Nina Gelband '77 as crew, joined B.

The MIT women's varsity sailing team has won most of the major events, including the Nationals last spring.

Above: Shelley Bernstein '74 at the tiller with crew Joan Pendleton '76 last Saturday in the first Emily L. Wick regatta.

The results of the regatta, which was tightly contested all the way, were: Harvard 26, Rhode Island 27, Tufts 30, MIT 38, Northeastern 49, Coast Guard 66, Bowdoin 67, Maine Maritime 71, and Boston College 84.

The men's varsity squad has three races left, including the Atlantic Coast Championships (Fiske-Harriman-Sleigh Trophy). Last year the MIT team finished second in the event, which was sailed at New York Maritime.

Above: The women's sailing team practicing.

Lower right: Captain Shelley Bernstein '74, earlier this year. The women's sailing team has won most of the major events, including the Nationals last spring.

Upper right: The women's sailing team practicing.