by Bryant Hills

The Institute Council opened the second portion of its November meeting as scheduled. The agenda for the meeting included the following items:

1. Approval of the minutes of the previous meeting.
2. Appointment of a subcommittee to consider the issue of student housing.
3. Discussion of the proposed budget for the upcoming fiscal year.
4. Review of the progress of the new campus construction project.
5. Approval of the appointment of new faculty members.
6. Consideration of the implementation of a new student conduct code.

The meeting adjourned at 5:00 p.m. without any further action taken.
** Annex Six Closed  

A week ago Wednesday, LIT was notified of a five Hinton and essentially a final result. It is understood that the final day of plans were canceled to conserve fuel wherever possible to function efficiently with as much energy being supplied.

It is also understood that finalists 5, 5, and 6 were running efficiently, using up large amounts of fuel. Dean King, Prof. Charlie Haggins, and Mr. Kelley of the Housing Office discussed the problem with the goal of dividing the buildings. It was finally agreed upon to close Annex 6.

The residents of Annex 6 were notified Monday around noon that the building would be closed off by 5 p.m. The notice was preceded by the final day's schedule. It is understood that Annex 6 will now be used as a temporary living space for the students in the Annex 6.

The announcement was made in such a way that the students would have time to prepare themselves for the move to a different building. The Housing Office will make arrangements for the students to be relocated to the new building.

** Time for Change  

Student politics at Lowell Tech is currently suffering under the strain of change. A change in administration. An end of an era. An era that was characterized by the old standard. As back in the years prior to 1985, Lowell Tech students had very few, if any, rules to consider for their free time on campus. The situation was such that if you had credit in your dorm you could be expelled. If you refused to wear a jacket and tie to class you could be expelled. If you spoke out, if you made a public statement, you were kicked out.

In 1980 and the ensuing years a revolution took place on our campus's image. The "Free Speech" movement started in the early 1970s.

At LTI, SRO (Student's Rights Organization) let's feelings be known and shown. They eventually moved into the Student Council and then, in the latest development, into the Student Senate. The Text and gave it a new set of editors as a result of supporting student rights. The first move was the release of a free speech lounge.

In the spring of 1975, the Student Senate, then a member of the Student Senate, and other individual student rights were achieved. Today's students are enrolled to receive their tickets at their colleges at Lowell Tech for lunch and dinner.

The major changes were made through negotiations. However, the change itself does not bring about the change that same day.

As a result of the past several years, the Board of Trustees, the administration, and the faculty committed themselves to being responsive to the students' needs.

Today, the times have changed.

Now students must change their thinking. They must change their own behavior, stand for personal rights and the right to say what goes on at LTI.

We have the right to complain, and now we have the right to do so. We have the right to have our complaints heard, and we have the right to be heard.

To continue to demonstrate and to do what we have demonstrated, we must be prepared to support the administrators and the faculty that we are not worthy of all the time we were seeking for and were not worth it.

We must now to the students to join forces to change our institutions. It is up to the people in the Student Senate, the Lowell Tech Labor Organization, the Institute Council and any other organization that has power, to protect personal rights and press for new changes, while at the same time straining through our own the process and cooperation of the other members of the LTI community.

Collectively all student governance at Lowell Tech should make administrative and academic bodies sit down to their constitutional responsibilities to us. Then the real needs will be met.
SON OF SENATE DEBACLE

Differences of Opinion

by Bruce Fraser

Because of these points the Egyptian leaders feel that they have a strong bargaining position, and can strive for a peace where Israel can't afford it. Egypt, of course, is waiting to make some concessions. In return for forshehka withdrawal, Egypt would accept a pre-peacekeeping force controlled by the UN and would recognize Israel's freedom and security.

What Mr. Kissinger has heard from Israel is obviously entirely different. Israeli means that if any broad concessions are made to the Arabs, this would defeat their main purpose: achieving security. Israel also must realize that they must first concede some points to the Arabs in order to keep their main supporters happy.

The real problem lies in the stubbornness of both countries. The Arabs state that if the American negotiations will be made only if all Arab territory is returned. Israeli states that far more emotional reasons, they won't relinquish the old sections of Jerusalem that it earned in the 1967 war.

In this sense, means there will be trouble there for a long time to come.

Editorial—Before it's Too Late

An Analysis of

Differences of Opinion

by Steve Barry

Now in these days when prank and risk-taking are a part of everyday life, there are many more people (mature adults that are taken by your friends or fellow students may just end up publishing stories. Last year when Markusen, a student at Amherst, was buried at the Student Union under the name of "a trek you track visitors" when they come on campus, he learned that the resumed a certain popularity and personal prestige, he felt he had victory, and his rule of confidence, but in the personal loss he had given up for that proverbial "mess of pottage." This is a tragedy, for Jim and for all of us.

Steve Barry

An Analysis of

Unfair Promotional Practices

Since the beginning of the school year there has been a large number of reported thefts, break-ins, and private property damage throughout the campus. The total amount of damage for the first two weeks works at over $1000. The incursion has not, as of yet, been stopped or hampered by the WLET. Plagiarism is a serious problem in college campuses but the campus security first learned of this incident.

What are the campus security doing and how long must they be doing the same thing to be the target of outside crime?

The investigation to determine just how unqualified personnel had obtained vitally important positions on campus. After speaking with Mike Busbee, head of the apartment union, he tells us that at the beginning of the school year there were three positions open for campus security but only two people applied for the job, however a second more political appointments were in order. Many of the applicants were better qualified and more senior than those who were selected for these positions. Of those selected, Teddy Cooper, a student at the University of Massachusetts, had been employed by the police for 18 months. The third man hired was Adrian submarine, a student at the University of Rhode Island, and he had been employed by the Institute for 20 years. It should be noted that many of the other applicants not selected had seniority by as much as 9-10 years. As a result of this, many of our school employes, who include carpenters, electricians, plumbers, maintenance men, and janitors, have found that all their hard work and effort goes unrewarded when promotions are offered. This has caused a very low morale which is quite apparent from tasks which we have had thus far.

In an effort to alleviate this situation, the administration circulated a petition and sent it to the President. The petition was completely ignored and as of yet no action has been taken concerning this matter. In response to some of the appointment of the map to the position of campus policy. It was signed by 10 men who felt that they were more qualified for the job.

Another problem with the administration is its lack of organization. This is exemplified by the fact that if a fire alarm is sounded during the night, the security men do not know which of their superiors to call. Supposably, this has all been taken care of.

You might also wonder why the plumbers and electricians sometimes sit on the stairs until late at night looking for work. This might be part of their own fault but the main responsibility for this falls on the shoulders of Mr. Delapato, who is in charge of the plumbing and electrical crews. They receive their assignments from Mr. Delapato, and since he doesn't care to work with plumbers and electricians, they are given the most uninterested men with no duties to perform until he arrives.

A rather pertinent matter is the new appointment of Charlie Hugues as special assistant to the President. Since his appointment, he has been busy changing the appearances of every building on campus. What was an old building, the Faculty Club, is now a new building. A 65 year old man was carted in and given your passports as well as the safety of the whole school. The old building had been employed by the Institute for 18 months. The third man hired was Adrian submarine, a student at the University of Rhode Island, and he had been employed by the Institute for 20 years. It should be noted that many of the other applicants not selected had seniority by as much as 9-10 years. As a result of this, many of our school employes, who include carpenters, electricians, plumbers, maintenance men, and janitors, have found that all their hard work and effort goes unrewarded when promotions are offered. This has caused a very low morale which is quite apparent from tasks which we have had thus far.

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Letters to the Editor

Page 4

November 19, 1973

The Text

The recent history of the Middle East is one of recurrent crises and conflicts. This has been the result of a complex interplay of political, economic, and social forces that have shaped the region over the past several decades. The ongoing refugee crisis and the increasing tensions between Israel and its Arab neighbors have added to the instability of the region. The crisis is not just a local issue, but has global implications, as the conflict has the potential to escalate into a wider conflict that could involve more powerful nations.

Dear Editor,

I am writing to you about the ongoing conflict in the Middle East. The situation is becoming increasingly complex and challenging. It is important for us to remain vigilant and work towards a peaceful resolution. I believe that the international community must take a more active role in promoting dialogue and understanding between the parties involved.

Yours sincerely,

[Name]

Comment, History and Survival

Dear Editor,

The recent history of the Middle East is one of recurrent crises and conflicts. This has been the result of a complex interplay of political, economic, and social forces that have shaped the region over the past several decades. The ongoing refugee crisis and the increasing tensions between Israel and its Arab neighbors have added to the instability of the region. The crisis is not just a local issue, but has global implications, as the conflict has the potential to escalate into a wider conflict that could involve more powerful nations.

Yours sincerely,

[Name]
Fuel Shortage—A Cold Winter

by Gary Siebel

A severe winter could create widespread trouble with crippling fuel shortages for many Americans unless a boycott of oil shipments to the U.S. The impact and duration of the energy crisis will be especially keen on the West Coast, where the Arab oil boycott continues and now tatter the weather will be the coldest of the winter.

The crisis may be so severe that rationing of such fuel oil and gasoline will be necessary. Thousands of jobs may be sacrificed, and some communities have already decided to be cut back and resort to part-time operation. Low speeds, as a result, will be a way of life in many areas, where residents will find it difficult to travel to and from work. The effect of the boycott will be felt throughout the nation, with gasoline supplies in many areas running low. The effects of the fuel shortage may create severe hardship for some Americans, and the suffering may be more widespread than anticipated.

It is expected that the fuel crisis will hit the East Coast region, particularly New York State and New Jersey. Mid-Atlantic regions will be hit hard, as this is the region that supplies some heating oil to the Northeast.

More Letters

"Peanut Gallery"

"He that wrestles with our strengths and nerves develops our skill. Our antagonist is our helper."—Edward Burke

It is with these words that the students introduce themselves to the student body and administration of Lowell Tech as the Association of Students.

Our goal is the protection of all students' inherent civil rights. The method we propose to accomplish this goal is:

First, by exposing and making public any information obtained by us in that we express displeasure of their rights, whether in proper or improper ways, to the administration or the students themselves.

It is the function of the ASA that several senators are trying to manipulate the senate for their own personal gain. We see these students as wishing to use the senate to further their own selfish motives due to student apathy.

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New Fresh Program

by F. Perlmutter

Many LTI freshmen come here without the necessary background needed to stay here. Some of these have deficiencies in certain areas. Many of these deficiencies are caused by poor study habits. The Freshman Seminar was designed to help the student adjust to college life. It does not attempt to give the student any motivation to work. Mr. Jack J. Moore is presently conducting a program called "The Guide to Academic Success." This program's purpose is to help each student himself. In these sessions he finds out what he really wants and gives him motivation to achieve his goal. A person with low intelligence and high motivation will raise himself above the average student.

Next year, Mr. Moore has run into several problems in getting the program started. His main problem was fear of failure. Many students refused to join the program thinking that he was underestimating them. Mr. Moore hopes to overcome this problem by talking to the students directly and getting them to understand the concepts. The administration refuses to give him the necessary funds to promote the course going forward.

He has suggested that the course be offered at a lower rate to make it more accessible. This has created a new position as a challenging experience.

Mr. Hank Kelly, who has been appointed by the LTI Associates as temporary manager of the 14th Street bar until the end of the semester, has kept the bar running smoothly for the past few years. He has made improvements in the bar's operation and has increased the number of customers.

Managing the Bar

Hank Kelly has been appointed by the LTI Associates as temporary manager of the 14th Street bar until the end of the semester. Hank has been employed in the Lowell bars for twelve years and has found new positions as challenging experiences.

Hank hopes to make the bar a hub of activity by next weekend. Right now, the bar is open on Monday through Thursday from 12:00 to 2:00 p.m. on Thursday, entertainment will be provided on at least one of the two weekend nights. When entertainment is available, the bar will be open from 6:00 to 1:00 a.m. on weekends. The bar will be open on Sundays from 6:00 to 1:00 a.m.

Hank has been working with the S.U.B. Committee subcommittees on beer and wine issues and has asked three persons to work as bartenders and ID checkers. Because the Rathskeller is a club license, only the LTI community and their guests are allowed in the bar. People who work in the bar are positively conducting a good operation for only beer. Enjoying working with the students, and enjoys to see the bar as a profit making business in the business expanded.

Cathy Rent

Notice

On Monday night 11/27/73 two black briefcases containing textbooks, wallets, watches, etc., were stolen from the S.U.B. Please return at least those items of monetary value (notes, pipes) to the president of the University or 14th Street. Mike Amsim
Steve Barren
Stan McGraw
A. Veronica Denon
Steve Tarry
Jim Martin
Gary Capuzzo
Box 1461
Box 1357
Box 1628
Box 477
Box 2181
Box 2610
Box 447

CAMPUS LAUNDRY

146 TEXTILE AVE.

THE STORE WITH THE BRIGHT OUTLOOK

"WHERE TECH STUDENTS MEET"

FREE FUN PILLOWS

AVAILABLE ON

SATURDAY, DEC. 1

SUNDAY, DEC. 2

10AM - 12 NOON

MAYTAG WASHERS AND DRYERS

WE ARE IN YOUR SECOND DECADE

SERVING TECH. STUDENTS

WASH AND DRY YOUR CLOTHES IN A CLEAN PLEASANT ATMOSPHERE.

ON THE SAME SIDE OF THE STREET AS THE LIBRARY ONLY ONE BLOCK UP.

LOOK FOR THE MAYTAG SIGN.
The Placement Manual with second semester's recruiting schedule is expected on campus during the week of November 30, 1973. Any additions, corrections, or changes to the regular schedule will be included on the insert sheet.

As was done last semester, the manual will be posted the week preceding the week in which you are to report for your desired position. The correpondence you receive for the first and second weeks of the second semester will be signed on dates in December. The dates and co-opspots will be identified at a later date.

The signs for the General Electric-Kodak Atomic Power Lab program will be held after their seminar presentation. It is scheduled for the week of November 27, 1973. Additionally, the Goodyear E2 and ME majors as well as NS and RS majors.

If altogether, you are not interested in the program, the other G.E. sheets will be available to you in review with G.E.

Stay tuned for announcements of other campuses that will be visiting our campuses on November 30, 1973. The delayed signups is new scheduled for November 30, 1973. The subject requirements for future college will be posted in the Career Counseling Bulletin Board.
On Scheduling and Registration

The Joint Committee on Registration has given a great deal of time and effort to improve the registration process at LIT. It has been a genuine concern for developing procedures which require necessary guidance to students, flexibility in selecting elective courses, and faculty.

As a commendable effort, the current registration procedures fail to meet the needs of both students and faculty involved in the process. The experience gained in procedures and final registration for the Fall semester indicates that current procedures require much more time and effort on the part of all students, faculty, and administration. Instead of giving major efforts to advise students, we are involved in the process of handling IBM cards and performing jobs merely assigned to related personnel. As a result, students are unable to select elective courses which interest them.

Scheduling should be considered separately. Scheduling of courses should be done by individual faculty members and advisory sections by individual departments. Meetings of committee may be needed for the convenience of individual faculty and individual departments but not for meeting the needs of students. Only changes required by the department, (such as new program, curriculum changes, courses added or deleted, etc.) should be required of students, faculty, and staff used in the course currently offered by the department. Individual faculty sections and other departmental requirements should be considered in light of the objectives may be considered by the Joint Committee at this time.

4. The Joint Committee, after studying all program requirements, including elective course requirements normally chosen by a student majoring in a particular program and the degree of interaction of this program with other programs, should establish certain guidelines and procedures for the establishment and modification of a Master Schedule. These guidelines should consider realistic projected growth of students for the enrollment in particular programs provided by department chairmen. These guidelines and procedures should be published and made available to interested groups. After a sufficient time for evaluation by all interested parties, the Joint Committee conducts an open hearing to consider comments and suggestions.

After incorporating appropriate suggestions, the Joint Committee submits the final guidelines and procedures for review by the Joint Committee, which is composed of faculty members, including students and of President and associated administrative staff. The Joint Committee conducts an open hearing to consider comments and suggestions. The final guidelines and procedures are published. This schedule includes course and laboratory section assignments according to program major. Using the final Master Schedule, each student will meet his advisor in the formulation of a schedule for the semester.

This process meets the student's needs of flexibility, but the student must retain all other registration material in order to register. The register keeps registration material for completeness and submits it to appropriate registration offices. The final Master Schedule is published and made available to interested parties. After a sufficient time for evaluation by all interested parties, the Joint Committee conducts an open hearing to consider comments and suggestions. The final guidelines and procedures are published. This schedule includes course and laboratory section assignments according to program major. Using the final Master Schedule, each student will meet his advisor in the formulation of a schedule for the semester. After submitting a course card for each course to the appropriate department, the student retains all other registration material in order to register. The register keeps registration material for completeness and submits it to appropriate registration offices. The final Master Schedule is published and made available to interested parties. After a sufficient time for evaluation by all interested parties, the Joint Committee conducts an open hearing to consider comments and suggestions. The final guidelines and procedures are published.
The Tools of the Trade

The original target of the calculator was the executive and engineer but due to the rapidly declining cost, they now fill the pocketbook (financially and literally) of the average engineering student. Just 20 Miles Away — Actually, we at Tech, are in the midst of a calculating empire. Edward A. White, President of Bowmar in nearby Acton, heads the firm which introduced the pocket calculator. Just 2 years ago, his tiny Indiana aerospace firm was trying desperately to diversify into consumer markets. He had flown to Japan with a miniature diode display screen developed by his researches. The Japanese manufacturers had recently conquered the desktop electronic calculator market, wiping out the U.S. mechanical-calculator business. The Japanese made a real mistake in the consumers electronics business and reined the venture. With similar refusals from U.S. companies, White decided to build the thing himself. Through the result of a pioneering development effort by Bowmar and Texas Instruments (one of the first companies to start mass-producing the tiny integrated circuit "chip") the first hand held calculator came on the market in September 1971. Bowmar sales have been going up tremendously. A reasonable guess is that Bowmar will build about one quarter of all consumer calculators made this year in the U.S. and Canada — about 1,200,000 machines.

Along with the display screen diodes, the calculator "chip" was essential in the development of the miniature machine. This MOS/LSI chip (metal-oxide semi-conductor/large scale integration chip) is a tiny silicon disk which packs the capability of several thousand transistors into a unit smaller than a pencil eraser.

Questions have arisen on how these new products will stand up to service. A difference of opinion exists. One expert insists that the silicon chip is inherently fragile and may break down if they are jarred or exposed to sudden changes of temperature. Also, he says that after expiration of the usual 1-year guarantee, costs for repair may be high. On the other hand, a spokesman for one of the larger manufacturers denies that a short working life is likely to be a problem. According to this source, integrated circuits are not at all fragile and they have been thoroughly tested for resistance to changes in temperature and humidity and to vibration. Actually, an endurance record has yet to be decided due to the brief history of the product itself. Only time will tell whether turning up incorrect answers, short life, and high repair costs are to be expected.

From the Simple to the Elite
The most common calculator and the cheapest are one step above the age-old adding machine. These contain the usual four functions (+, −, ×, ÷) with the more sophisticated models equipped with a constant key and having the ability to conduct chain multiplication.

For addition and subtraction, there are two different methods in the sequential operations.

In calculators with the combination ++ on one key and the combination − on another, the number to be added or subtracted is entered first, followed by the operation of the plus or minus key, whichever is called for. This also applies to calculators which have a separate (minus) key and a combination ++ (plus equals) key.

2. In calculators with separate keys for +, −, and ×, the plus or minus key is to be operated before the number to be added or subtracted is entered, i.e. you enter it as you say it: 3+4−7.

These calculators can range from $50 to $200 in the pocket models. The most popular are the Bowmar models. Texas Instruments' Datamath, Remington and Compaq models.

In the more advanced ranges, we have Texas Instruments' electronic slide rule - the SR-10. During the past 5 months I've seen the price on this baby drop from $150 to $120 to $100 (the price at which I bought mine) to a present $100. This calculator is fantastic if you don't want to spend the money for one of the HP models. The square root, squares, inverses and scientific notation are perfect for PH141 or Ms383. The only drawback the machine has is the absence of a constant key.

For the more affluent student, there is the HP-35, which recently dropped from $400 to $300 with the advent of the 45. These calculators have the capability of the table top Wungs (if not more). Both the 35 and the 45 have exponents, trig functions and log functions. They have solid state memory similar to those used in computers.

A Calculated Choice
When you finally decide to buy (Continued on Page 4)
DO YOU HAVE ALL THE ANSWERS?

Dennis Office Supply
Calculator Center
109 Market Street
Lowell, Mass.

SAVE 20.00
TEXAS INSTRUMENTS
SLIDE-RULE CALCULATOR
SR-10 FOR ENGINEERING
99.95 [ ]

SAVE 15.00
TEXAS INSTRUMENTS
DATAMATH 2500
69.95 [ ]

SAVE 30.00
TEXAS INSTRUMENTS
TI 4000 CALCULATOR
139.95 [ ]

The E-Bowmar Brains
PERSONAL ELECTRONIC CALCULATORS

We also have:
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Marchant
Unicom
Remington
Electronic Calculators

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that calculator there are a few considerations to be made. First of all, what kind of calculations do you do and how many. Do you do enough to require the constant use of a HP model? Or, would an SR-10 suffice? If there are not too many and if you don't need the exponential, tangent, or square root a calculator with just the 4 functions will be an adequate choice.

There are also a few minor details which may not affect a choice but are interesting to point out. Some calculators have the feature of "tactile feedback." Most keyboards provide an audible click when each key is pressed to indicate to the operator the number of function has been entered into the circuit. Some calculator display windows are easier to read at wide viewing angles than others.

-A warning of some sort (usually the letter "L") will appear on the display of many models when the battery is running low.
- Most calculators have an adapter for a-o operation and recharging.
- Some calculators automatically blank out all digits except for the last - 9 to 19 seconds after the first appearance. This is built in to prolong the life of the batteries.

-Guarantees - usually 12 months.

Last, but most important, is the price. But even that is not much of a problem - with time. When one observes the fierce competition and rapid advancements it is no wonder that the prices of some calculators have been cut in half since their first appearance on the market 2 years ago. We may someday even see the price of the HP-35 down to $100.

---

**POCKET CALCULATORS: MINI, MIDI, MAXI**

In three broad categories, a random sampling of the 100-plus hand-held machines currently available

<table>
<thead>
<tr>
<th>RANGE</th>
<th>MANUFACTURER AND MODEL</th>
<th>DIGITS OF READOUT</th>
<th>WEIGHT (in ounces)</th>
<th>DIMENSIONS (in inches)</th>
<th>PRICE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>Rapidman 300</td>
<td>8</td>
<td>7</td>
<td>1/2 x 3 1/2 x 5 1/2</td>
<td>$59.95</td>
<td>fixed decimal</td>
</tr>
<tr>
<td></td>
<td>Commodore MM-3</td>
<td>8</td>
<td>5 1/2</td>
<td>1 x 3 x 4</td>
<td>69.95</td>
<td>constant feature</td>
</tr>
<tr>
<td></td>
<td>Garrett 2020</td>
<td>8</td>
<td>24</td>
<td>7 x 6</td>
<td>69.95</td>
<td>spherical housing</td>
</tr>
<tr>
<td></td>
<td>Summit K09V</td>
<td>8</td>
<td>8 1/4</td>
<td>1 x 2 1/2 x 4</td>
<td>79.95</td>
<td>no bigger than a pack of cigarettes</td>
</tr>
<tr>
<td></td>
<td>Texas Instruments 2500</td>
<td>8</td>
<td>12</td>
<td>2 x 3 x 5</td>
<td>99.95</td>
<td>two-function constant</td>
</tr>
<tr>
<td></td>
<td>Bowman MK50</td>
<td>8</td>
<td>9</td>
<td>1 x 3 x 5 1/2</td>
<td>99.95</td>
<td>percentage key, automatic constant</td>
</tr>
<tr>
<td></td>
<td>Commodore UL-4</td>
<td>8</td>
<td>10</td>
<td>1 1/2 x 3 x 5 1/2</td>
<td>99.95</td>
<td>memory</td>
</tr>
<tr>
<td></td>
<td>Rapidman 801</td>
<td>8</td>
<td>8</td>
<td>1 x 3 1/2 x 5</td>
<td>109.95</td>
<td>automatic constant</td>
</tr>
<tr>
<td></td>
<td>Berkley 350</td>
<td>8</td>
<td>9 1/2</td>
<td>2 x 3 x 5</td>
<td>119.95</td>
<td>percentage key</td>
</tr>
<tr>
<td></td>
<td>Craig 4503</td>
<td>8</td>
<td>9</td>
<td>1 x 6 x 3</td>
<td>149.95</td>
<td>memory and percentage key</td>
</tr>
</tbody>
</table>

| Top range, slide-rule features for engineers and mathematicians | Texas Instruments SR-10 | 10 | 8 | 1 1/2 x 3 x 6 | 149.95 | square roots, reciprocals |
|                                                              | Hewlett-Packard HP-35   | 12 | 9 | 1 x 3 x 6    | 295.00  | exponents, trig, log       |
|                                                              | Hewlett-Packard HP-45   | 12 | 9 | 1 x 3 x 6    | 395.00  | jazzer version of HP-35     |

* THESE PRICES ARE AS OF SEPTEMBER 1973
The Student Evaluation form has been approved by the Institute Council. It will now be implemented on campus this semester. This is a much improved system from those previously used. There are a few guidelines, that students should be aware of, for evaluating teachers using this new system.

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4. The Student Monitor will tell you what sections to answer sections A and B.

5. The instructor of the course you are evaluating cannot be present.

As a final note, this evaluation is used by the Administration and Board of Trustees in evaluating the teachers of LIT. Student participation is very important, because whether a teacher is good or bad the evaluation provides one mechanism for the eight people to find out.

SUNDAY THROUGH THURSDAY

**BA LECTURE**

Thursday November 15, the College of Management Science had a guest speaker in the multi-purpose room at 9 a.m., William R. Kennedy, President of the Merrimack Valley National Bank, discussed several current issues facing the commercial banking system in this area. A graduate of Bentley College, Mr. Kennedy is the past President of the Massachusetts Bankers Association and current Director of the Federal Reserve Bank of Boston.

"Banker's don't really exist," said Mr. Kennedy. Some days may be as long as sixteen hours. The hard hours of banker is to be characteristic of bankers is a definite misconception which Mr. Kennedy wanted to straighten out.

In recent years savings banks have created rugged occupations for commercial banks. Savings banks in Massachusetts and New Hampshire have received permission from the Federal Reserve Board to establish "Now" accounts. A "Now" account is a checking account that earns interest on the unused principle. This account has become popular in its short existence and has drawn many banks to copy the system. The commercial banks have been fighting for this similar "Now" account, and are not willing to give permission from the Fed. The existence of the account is putting a decline on which will be made this December. "Now" accounts may be scan into effect in commercial banks.

Mr. Kennedy then brought out a problem which costs the nation one million dollars per day. This is the problem of uninsured losses. This is when a person doing one small cash transaction and were found liable or altered in some way. This applies to the main question why can't you cash a check at a bank where you don't have an account. It is to cut down uninsured losses.

Mr. Kennedy went on to say that interest rate for borrowing money will go down to 6.5% from the current 9.5% by the summer of 1974. Therefore it is advisable to wait until then to finance a new home or automobile.

**SUNDAY THROUGH THURSDAY**

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NEWTON, MASS. 664-3520
LAWRENCE, MASS. 687-1191
BROOKLINE, MASS. 434-6600
WOBURN, MASS. 438-9560

This Offer Supersedes All Other Advertising

SUNDAY THROUGH THURSDAY

**TEACHER EVALUATION FORM**

Each of the marked statements appearing on this form refers to a specific criterion on the computer card (see numbers 1 thru 27 at bottom of card). Mark your response on the computer card with a soft lead (No. 2 pencil). All the responses must be completely and carefully. If you do not mark your responses to a particular statement, it will be considered a ‘no response’. Everyone should respond to Sections A and E. Your instructor will inform you which of the remaining three sections should be reviewed. Rate on a 0 to 4 scale with 0 being the lowest rating and 4 being the highest (most favorable) rating.

A. Student Information

<table>
<thead>
<tr>
<th>College</th>
<th>Year</th>
<th>Class</th>
<th>Name</th>
<th>Address</th>
<th>SSN</th>
<th>Phone</th>
<th>Other</th>
</tr>
</thead>
</table>

B. Lecture/Recitation Instructions

<table>
<thead>
<tr>
<th>Topic</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
</table>

C. Seminar Instructions

<table>
<thead>
<tr>
<th>Topic</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
</table>

D. Laboratory Instructions

<table>
<thead>
<tr>
<th>Topic</th>
<th>Instructor</th>
<th>Description</th>
</tr>
</thead>
</table>

E. General Information for All Instructors

1. The instructor's presentation of material was well organized and covered concepts effectively.
2. The instructor spoke clearly, audibly and understandably.
3. Homework, test, papers, and/or reports were appropriate in the course.
4. The instructor graded my work fairly.
5. The instructor was available for consultation concerning other material.
6. The instructor was an enthusiastic teacher and made the course stimulating.

Overall Rating of the Instructor as an Effective Teacher:

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**Student Evaluation**

by Michael T. Ryan

The Student Evaluation form has been approved by the Institute Council. It will now be implemented on campus this semester. This is a much improved system from those previously used. There are a few guidelines, that students should be aware of, for evaluating teachers using this new system.

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PI LAMBDA PHI
OPEN PARTY
Friday, November 23
8:00 - BOOZE
LIVE BAND
Happy Hour 8-9 Drinks 25¢
77 Livingston Ave.
For Rides or Info Call: 452-8583

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TUES. NOV. 20th at 7PM
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L. LOWELL STATE
A THANKSGIVING CONCERT - MIXER
ADMISSION: 50¢
SOPRITY 25¢

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The International Club with
Associated Bands, X.G.

Conquering the Cafe
by Fu

Good afternoon, ladies and gentlemen! Today we will have the delight of receiving a guided tour through the fantastic Student Union Cafeteria and Dining Room Complex. As you enter, you'll find many stimulating activities occurring simultaneously: You may want to go to the cafeteria to see some Hawaiian Punch being played, or view the soda machine going out through just that salad. Now your tray weights about five pounds. You glass (shampoo) it down on the salad table. Fix yourself a real goofy lookin' salad—it's always good for looks.

Time to get into another bowl to get up, salt, pepper, sugar, and small cream (You thought it was whipped cream to put on your father's hair? You know how to look and see how far ahead your friends are. Catch up to them and sit down at an available table which will accumulate all of you, and preferably not next to one that's got an upside down salad on top of it."

The hardest part has arrived. You've got to make an attempt to eat what's on your tray, and it looks worse than you had ever expected! After about five minutes of eating, you will definitely be satisfied for the night, but your thirst for adventure calls you to go up for seconds and you can't resist! It's one more adventure where what you see the second time around bears no resemblance to what you saw the first time around! Go through the usual routine again, because by this time, they have sympathy for you (they smile). After you are done eating, the big part is yet to come. You've got to try to pick up your tray and get it over to the conveyor belt, which suffers from a severe case of the Chinese Bostonditch, right in the middle of it all. Put your tray on top of someone else's—it's the only way to get rid of it! Good night, folks. The hour is over. Hope you had a good time. Now wait for an elevator to get upstairs for Free Time.
Society for Advancement of Management

On Thursday, November 8, 1973, two officers, Paul Peizer and Bill Mcnamara, two committee members, "Rosy" Luton and Atlee Matz, and two guests, Bill Southard and Jim Dirke, attended the "Youth Forum Night" held by the Boston Chapter of S.A.M. (a professional club).

The forum started with a workshop in the afternoon, which lasted about 1 1/2 hours, which was followed by a dinner and time to talk to each other. After dinner a representative from the American Management Associations explained a program that the A.M.A. offers, Operation Enterprise. A simulation of a session at O.E. then followed where we discussed the objectives of management with the professionals. Information on O.E. will soon be available in the S.A.M. office. Come down and see us in the basement of Nick時代 Hall.

The one thing that baffled us from the forum was the change that you talk with the S.A.M. capstone. We discussed the possibilities of inter-club functions.

On Tuesday, November 13, 1973, at 9:00, a bus left from Nick時代 Hall with 17 members for a tour of the Star Market Distribution Center in Norwood. The tour lasted about 1 1/4 hours and a discussion period followed that lasted 45 minutes. We used to take a tour for five dollars, but we really think the tour was a bargain. The tour guides were very informative for both the students and our guides.

One topic brought up during the discussion period was that of job opportunities and Star Market. Nat Scheneman said that he would speak to the potential directors about recruiting here at Tech. If you're interested, talk to him or with the Career Counseling Center here at Tech.

We are finding out everyone for the annual open forum of the student-society Christmas party. The information will be available soon, watch your mailboxes and the TEXT.

An important Business Meeting will be held on Thursday, November 8, 1973 at 12:00 p.m. in room K313. The new constitution must be voted on at that time. Plans for the 2-day management symposium next spring will also be discussed. As a change of scenery, one alternative to mid-session trip will be explained. We URGEE YOU to attend.

International Mixer

The International Club of Lowell State College will sponsor its second mixer of the year. We would like to thank all the Lowell Tech students who attended our first mixer last October. Our October mixer was a huge success and the students at the Exchange would have been thrilled with our Mixer, at the first annual "Open House". The festivities lasted all day, with coffee and donuts, and were served on silver trays. In the evening, cocktails were served with the bar set up in the Exchange's Student Union. The students had a great time, and we hope you will join us again.

The admission for this event will be $0.50 cents only, beer will be sold for 25 cents per cup. The Thanksgiving Concert Mixer will take place Tuesday, November 27th in the old cafe at Lowell State College. We will be meeting at 7:00 p.m. Hope to see you there.

Photo Contest

The Photo Club is sponsoring a photo contest open to all students and faculty and administration. We believe there are many talented photo boys at Tech. Here is your chance to show off your talent. The contest is as follows:

1. The picture must be 8x10 or less black & white.
2. The subject is open, any photo on any theme.
3. The print should be mounted, if possible. (We have mounting facilities in our photo lab.)
4. The entry fee is $0.25 per print. There is a maximum of 5 entries per person.
5. All entries will be returned.
6. The contest will be judged after Christmas by objective judges.
7. THERE ARE PRIZES of $25 FOR FIRST PLACE, $15 FOR SECOND and $10 FOR THIRD.
8. Entries will be accepted after the Thanksgiving holiday in room K-206 every Tuesday and Thurs., at 12:00 o'clock.

For photographers who need facilities, the Photo Club has been given the Photo Lab facilities in the basement of the old Library building. For now, we, the members, thank the office of Dean King. We welcome new members gladly.

The Science Esoteric

For all you astrology freaks and thrill-seekers, here is the chance of a lifetime. The Comet Kohoutek is now able to be seen with the naked eye. It is a spectacular sight, but you can't see it now. The comet was discovered on March 20, 1972, it is composed of frozen water, gases, and dust. Binoculars may still be helpful until Dec. 1 when the best viewing period for this comet will take place. There will probably be another chance like this in your lifetime.

I. E. E. E. GALA CHRISTMAS PARTY

BUFFET SUPPER AND LIVE BAND, SATURDAY, DECEMBER 8 7:00p.m. to 12:00p.m.

Second Floor Cafeteria-Lounge of the Student Union Building $3.50 / person $7.00 / couple Tickets on sale in the I.E.E. office (B-320)

LTI COMPUTER SOCIETY

The first meeting of the LTI COMPUTER SOCIETY will be held Wednesday, November 7th at 12:00 o'clock in room X330. This meeting will be to briefly discuss the goals of the society, membership, committees, officers, and any suggestions you might offer. Any interested student can be a member and is invited to join.

If you can't attend and desire to know what transpired, contact Larry Leise at 2214.

OPEN HOUSE: CN & PA

by Bill Young

Last Wednesday, the American Institute of Chemical Engineers (A.I.C.H.E.) in coordination with the Technical Association of the Pulping and Paper Industry held its first annual "Open House". The festivities lasted all day, with coffee and donuts, and were served on silver trays. In the evening, cocktails were served with the bar set up in the Exchange's Student Union. The students had a great time, and we hope you will join us again.

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Lowell State Student Union and Members of the International Club

Demonstrate the phenols of recycling, starting with a hydrocarbons which ground up and mixed with a variety of graphite. This mixture, called a clay, was then transferred to the heater for heating. The mixture was then transferred to the next clays, which were then heated in the oven and the water was drawn out. The sample (on request) can be obtained by a friend. We will be soldered on the dryer. It was then put through various tests to determine its physical characteristics. All demonstrations at the Open House, including CN and PA students. It is hoped that this event will be beneficial to the department in the recruitment of freshmen engineering students.

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WANTED: Typists are needed for the Photography. We don't care about speed (i.e. typing speed). We just want conscientious and careful workers. Typists are needed desperately to enable us to use our new equipment. Bring your friends, enemies, and colleagues to room 410 of the SUB. SUB is open any Tuesday or Thursday at 7:30 p.m. If you just follow the stairs up to room 72, and turn right to the glowing neon sign in the dark, you won't be able to miss it. You must believe the need just look at the typists in this add.
Looking for a place where you could go in pairs, a small group or even in one big happy bunch? Then take a ride up Washington Street, just a few from the busy metropolis of Harvard Square. Don’t be surprised if you have to wait awhile. It’s well worth it, though. Once you make it into the place, you’ll see the unique setup where tables are set up in various patterns, including the tables for two. The restaurant is full of onlookers perusing appetizers with lighted torches on each table.

One ingredient on the walls: absolutely delightful and pleasant. They convey the feeling that if you let your glass go empty for ten minutes and are more than willing to give extra cash on the bread.

Overflowing with history, located in the famous Parker House downtown Boston is DaVinci’s restaurant. The place definitely screams out early New England history with its eighteen century black and white pictures strewn up everywhere. The old-fashioned bar, ovenized and the open salad bar right in the middle of the dining area filling up the walls into various sections. Nightly entertainment includes a band which plays popular songs from earlier. (The next night we are recording an album.)

What a soul lover, you’ll flip when you see the items which you can put into a make-it-yourself salad, as bag you wish. Wine or a variety of toppings can be bought in quarter, half or whole items. The giza mains consists of most fish dishes and also includes squid and shrimp. Each meal can be bought in four sizes, ranging from a quarter pound up to a pound. Naturally, you can cut up the place for $10.00 or $20.00 depending on the size of your particular appetite. Nevertheless, the food is great, the entertainment enjoyable, and all the polite waiters I’ve seen in a long time. The restaurant only sets one type of meal— the Parker House meal which occupies me. We think you’ll agree that no other role quite compares in it.

Unfortunately, the night we were there, the place was a little short on doners, but normally they do offer quite a few unusual items such as apple pie, Boston Creme Pie and cheesecake. But then the waiter made up for the bad by pulling extra fish in our doggie bag. Maybe, you’ll be lucky.

A MODERN MAN

The LTI World Future Society had its second lecture last Wednesday night, November 24th. Chris Cornely, a senior at Tech, gave a fascinating presentation on Leonardo DaVinci. Though the use of transparencies and an overhead projector, Chit explained why DaVinci was a modern man, far in advance of his time.

Leonardo DaVinci so many was a talented and famous artist, but he also was a brilliant designer, engineer, and a doctor. Through his notebook and sketches, we see the mind of man in progress, which is a modern man. The light inside the century, DaVinci was truly a creative genius and a futurist. Many of his ideas took centuries before they were developed.

We here at the World Future Society welcome any interested individuals who are sincerely interested in his future and the future of the world. Get in touch with us at Box 448 and we will answer your questions. We need your support and talents.

Note: Future Shock will be shown Nov. 28th in the Multipurpose Room.

WILLIAM STEPHEN WEEK OF NOV 19

SUNDAY

3:00 Benji Morton
5:00 Broadway Dinner, The Foreign Correspondent
7:00 Morven
8:00 Rite Aid
10:00 News
15:15 Yuk (Yuck, Yuck)
TUESDAY

3:00 Pete C’Crissy
4:00 Cafe Rouge
5:00 Evening Concert
6:00 News
20:00 Presentation: Israel, The Foreign Correspondent
7:00 New York
8:00 Pete C’Crissy
9:00 Allen Brook Concert
10:00 News
15:15 Wind Machine
15:30 Sign Off
WEDNESDAY

3:00 Bob McNally
4:00 Rite Aid
5:00 Evening Concert
6:00 News
6:30 Public Affairs
7:00 At the People’s
8:00 John Coolidge
9:00 Bob McNally
10:00 News
15:30 Pete C’Crissy
15:30 Sign Off
THURSDAY

3:00 Don O. Puddington
4:00 Rite Aid
5:00 Evening Concert
FRIDAY

4:00 News
5:00 Evening Concert
SATURDAY

9:00 A.M. Shermann
9:00 A.M. News
9:00 A.M. Rite Aid
9:00 A.M. Pete C’Crissy
12:00 Noon Little Joe
12:00 P.M. News and weather
12:00 P.M. Rite Aid
6:00 P.M. News
7:00 P.M. Pete C’Crissy
8:00 P.M. Rite Aid
10:00 P.M. News
10:00 P.M. Rite Aid
10:00 P.M. Pete C’Crissy
SUNDAY

9:00 A.M. Shermann
12:00 noon Little Joe
12:00 P.M. News and weather
12:00 P.M. Rite Aid
6:00 P.M. News
7:00 P.M. Pete C’Crissy
8:00 P.M. Rite Aid
10:00 P.M. News
10:00 P.M. Rite Aid
10:00 P.M. Pete C’Crissy
1:30 A.M. Sign Off

Answer to 2 weeks ago

BON APPETITE

For the appetizer, how about a combination of:

- Caesar salad
- Fresh tomato
- Fresh mozzarella cheese

For the main course, we have:

- Grilled chicken with roasted vegetables
- Grilled salmon with lemon aioli

For dessert, how about:

- A classic chocolate mousse
- A slice of New York cheesecake

Bon Appétit! Enjoy your meal!
WANTED

Have your term papers, reports and notes from this term re-written for $5.00 a page, typed in typewriter.


Anybody who needs a ride to Falmouth, please contact Peter Miller, 1224 Librum, Winthrop. Waiting patiently 21st. Ride with me a ride in Bsm 1973.

Going to Philadelphia and vicinity on the 21st afternoon? Contact Peter Miller, 1224 Librum. Control 4-3210. AVAILABLE.

WANTED Maniacs interested in jamming. Content: Guitar, double bass. Phone 4-3641 or 4-3916. Last 16 in 1973.

FOR SALE

1 Star, Solid State Receiver, AM, FM, also has a small personal stereo. Controls: mono, stereo, another monitor, balanced, tone, treble, mid, bass. Total controls: 6. $25.00. Will talk about price with anyone interested. Contact: Steve, SDB, 4-3861.

Bass Box 15" x 6 1/4" x 15 5/8" with knobs, $5.00; 12" speaker box, 8" speaker, $5.00; amplifier, mix box, complete system, 4 speakers, 3 bass boxes, all for $85.00. Contact: Bart, SDB, 4-3661.

The Brand New Stewart-Two size 024 Fisch and the other size is $150.00. Total $265.00. Total $355.00. Phone 4-3647 and ask for Frank.

1957 Packard Allstate dual-plated black vinyl condition — $450.00. Phone available at any time. 4-3623. Must be城 for $400.00. Phone 4-3584.

Fender Musitron Bass. First, Red One pickup. $150.00. Phone 4-3660. Total $350.00. Total $250.00. Total $175.00.


4-3668. "THE WIZ" ticket! $1.00 white light, all-blender. Contact Wayne Woes 4-3668.

Unified recondition of all types, for the professional and hobbyist. Lavalier, lapelphones, speakers, etc. For the jazz, in studio, AM-FM stereo, radio, tape sets, speakers, FM converters, etc. Also a 10x12x6f and cassettes. None of these items at cost. At prices for reconditioning. Check for a price. Ch.Move is slimming down and this equipment makes a wonderful gift. 6-4 FM Concepts at 4-3668. CONTACT: Peter Miller 4-3668.

I have 3 tickets for sale. 3, 5, 7 PM shows. Price includes includes: 1. Trimark 2. College age. 3. Early entry.
What's Happening in Intramurals...

by Chris Mecoy

The Turkey Test was held on Thursday under a cloudy sky with forty entries participating. The rate was won by Jim's Ducks who set a course record at 18:29. Right behind him was Mike Orlando, Jeff Coles, and Kim Huley for the winning spots and to Jim's Ducks and O Pi for the top two teams. The placement and times of all the runners is in this paper in another location.

The Intramural Council met last Tuesday and set up the basketball playoffs and leagues. There will be four separate leagues consisting of teams aligned as follows:

- **D-1**
  - American
  - Bullets
  - Clubhouse
  - O Pi
- **D-2**
  - Bullets
  - Clubhouse
  - O Pi
  - Bullets

**Wightman**
- **E-1**
  - Kappa Sig
  - Phi Psi
  - Pi Kappa Phi
- **E-2**
  - Phi Kappa Psi
  - Sigma Phi Epsilon

The playoff system will consist of the top two teams in each of the four leagues. At the last meeting it was decided the playoff positions would be drawn from a hat. When this was completed the playoffs were set as follows:

1. **STS**
   - 1st Americans 2nd Dormitory; 1st National 2nd vs. American; 1st Dormitory vs. 2nd Fraternity; 1st Fraternity vs. 2nd National; 1st Place vs. 2nd Place.

The basketball season will get underway on Monday after the Thanksgiving Recrea. The schedules should be out before we go to press. These times of games will be given on the schedules. The same system for postseason games will be used as was used in basketball. It is important that each team provide someone to help the official scorer so that the Intramural Office may get out a schedule sheet as soon as done last year will be there in time for an All-Star team from each league. In order to get this project underway it is imperative that each team send a representative to the meetings. A few of those present include: M. Olmstead, Kappa Sig; Mike Orlando, the President of the Council; Mike Orlando, the President of the Council; Mike Orlando, the President of the Council; Mike Orlando, the President of the Council; Mike Orlando, the President of the Council; Mike Orlando, the President of the Council; Mike Orlando, the President of the Council; Mike Orlando, the President of the Council; Mike Orlando, the President of the Council; Mike Orlando, the President of the Council; Mike Orlando, the President of the Council; Mike Orlando, the President of the Council

The next meeting of the Council will be held on the 27th of November and it is expected that every team will send a rep to that meeting so that the all-star team can be settled.

Pucksters

Despite a rugged schedule Coach Riley will be looking for his fifth consecutive winning season. “We added Middlebury to our already formidable list of opponents, but I feel that we can continue our winning ways,” said the youthful coach.

“This year’s club has more depth and speed than any previous squad in the LTH’s young hockey history. The strong point will be defense. We have two excellent goalies in Mike Goggin and Mike Dale, and the efforts can be as frustrating that a fellow leads to mistakes by the opposition.” Riley further stated, “Last year’s offense was formidable, we have all free defenses back from last season. The only double scater is Ted Nager, still bothered with knee troubles.”

Riley does not feel that his offense will suffer, though some members are out of shape, is coming back and should be ready for playing. The scoring threat of Bob Klein and Dennis Stael will certainly be missed, but Steve Koons and Bruce Hatchman who occupied the second and fourth spots in Tech’s parade will both back. Woods has 18 goals and 18 assists last year despite an early season wrist injury.

(Continued on Page 16)
Know Your Coaches
The Man in the Gym

By Nancy Hunsford & Bob Hogen

The text begins with a mention of a coach's role and includes a section on the 1973 In nationals. The text then transitions to a focus on coaches and their importance, with a specific emphasis on Rip Stansberry and the program he ran. The text concludes with a reflection on the change in coaching philosophies and the impact of new perspectives on the sport.
If someone had told Frank Zappa back in 1958 when he was making tapes of his teenage experiences and recording his friends’ music that someday it would become part of an in-depth meticulously researched book — History and Collected Experiments of the Mothers of Invention — he probably would have bitterly agreed. No doubt.

Says Frank: "Perhaps the most unique aspect of the Mother’s work is the conceptual continuity of the group’s output mass-structure. There is and always has been, a continuous control of thematic and structural elements flowing through each album, live performance and interviews."

Without diving into time consuming analyses, let’s put everything into perspective, starting from the beginning. The following information is gleaned from a radio show Frank is putting together for distribution.

December 21, 1962, in Baltimore, Frank began playing guitar in 1958. He graduated from high school the same year and attended one semester of Mr. College before "finding someone to live with and dropping out." During 1963-64 he executed the blueprints for his life’s work: began preliminary experimentation in early and mid-1964 and began construction of the project/object in late 1964. That year he also began work on a project with old high school buddy Ira flat Mike's Captain Beefheart. Sliced for the CBS Repertoire workshop and called "I Was A Teenage Matador," which was his debut effort. But it failed. Needless to say, it was immediately rejected by the show's shortened producers.

But Frank and Don tried to form a group called the Soots. It didn’t last long. Finally Frank and Don tried together a band called the Mothers and worked local joints an until Cummings for sandwich money. The act got signed to “another record company,” changed the spelling of its name and released five albums (see bibliography).

Reprise Records signed a distribution deal with the Mothers of Invention a few years later with their own label, Izmir. Since then, Frank and the group have recorded ten more albums, all written and produced by Frank.

In 1964 the Mothers began dealing with music in terms of textures and spatial placement. It was also the year that the original Mothers (even though members had been replaced occasionally) dismantled, giving way to the livefillmore East album and then a constantly evolving movement of Mothers.

Somewhere along the way, this was all nurtured in Frank Zappa’s habit of putting everyone beyond the limits of what they’re capable of doing — therefore you have to grow if you’re going to be in that."

Someone else made this observation: "Aside from an exception, Frank is a wonderful person. He has the unique qualities of being a strong leader and still being able to remain humble.... It’s very strange."

Now, having just finished a tour with the 20-piece Grand Wango and some concerts with their teen group, Frank is on the road again with the "new, improved" Mothers of Invention. Here’s how it is:

As Frank Zappa, guitar: Jess-Loz Potty, vocals; George Duke, piano; Hn Underwood, woodwinds; Keith Underwood, marimba, xylophone and percussion; Tommy Fowler; trombones; Tom Fowler, bass; Ralph Humphrey; drums; and Sal Marquez, trumpet.

"The band doesn’t sound like anything you’ve ever heard before," says Frank. "The instrumental combinations, the sound of it is so strange. Frank tried to explain again: "The way the tones are voiced, the violins will either be on the top or bottom of the chord, the clarinet is in the middle sometimes alternating with the trombone and the upper edge is usually outlined by a marimba or other line. The lines often play along with everybody else. All of this is accompanied by a harmonic line or the duplication of the marimba line on a synthesizer."

"And everywhere there’s lots of complicated lines being doubled all over the place — rhythmically and melodically as well.

"While it may sound confusing, the music is not to be maligned — and the show is a wonderful key to understanding when you give the new music a listen."

As an educational aid, it should have dawned on you by now that Frank Zappa and the Mothers of Invention’s history cannot be adequately taken care of in a few paragraphs. Remember, he has nine records (going on ten) check, full of goods that will either help the public understand him or hopelessly confound them.

If anything else, he will continue to dazzle them. Let’s end with a favorite saying of Frank’s: "I will never be a hipster. Always a freak, but never a hipster." Note that should sound people.

Lowell Tech will see Zappa’s insight Nov. 30 at 8 pm - Costello Gym. Ticks $4.00. LTI students $3.50 all others.

Frank Zappa and the Mothers.

Hawks

Win

Basketballers Win Big

Last Tuesday, in their second scrimmage of the season, the LTI Basketball five sailed from New Hampshire State College. The combined score for the three hours was 162 and Franklin 91.

The first two halvesTech won rather easily with Chuck Kierans leading the attack with 19 points. Most of the scoring came off of the fast break, which appeared to be LTI’s strong point.

During the final half Franklin came off the circus game and the lead jumped back and forth. With Tech trailing Kierans advanced with three field goals and LTI with 9 seconds remaining, Ford calmly sank both ends of a one-on-one and LTI won by ten runs out.

Tech had balanced scoring as the players reached double figures (Kraus, co-capt., Ford and D’Riica, Steve Chudnovsky). The result was: Tech 98 and LTI 92.

The first half was a battle of fast break. Tech won easily with Chuck Kierans leading the attack with 19 points. Most of the scoring came off of the fast break, which appeared to be LTI’s strong point.

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