MEASUREMENT SEMINAR

The American Society of Tool and Manufacturing Engineers is sponsoring a Measurement Seminar, which will be held on April 21st and 22nd. This seminar is designed to increase understanding of measurement methods and instruments (Mechanical, Optical, Electro, and Electrical). It is open to all who are interested in measurement and will be held at the Lowell Institute.

The Seminar is open to all engineers, technicians, and others interested in the field of measurement. It will cover the latest developments in measurement technology and provide an opportunity for discussion and exchange of ideas.

The seminar will be held at the Lowell Technological Institute Campus. There will be a fee of $50 per person, which includes meals and refreshments.

The seminar will be divided into two parts: one for engineers and technicians, and one for students and educators.

The seminar will conclude with a panel discussion on future trends in measurement technology.

GIVE BLOOD!

BLOODMOBILE TO VISIT TECH

May 2d is the date for the annual bloodmobile visit to Tech. The drive will start at 2 p.m. and continue until 8 p.m. during regular class hours. It is hoped that every student and faculty member will participate, and that the drive will be a success.

The drive will begin with a special event in the auditorium at 2 p.m. The event will feature a talk by a local doctor, who will discuss the importance of donating blood. Following the talk, the bloodmobile will be set up in the student center.

The drive will be open to all students and faculty members, and there will be no charge for participation.

The drive is part of a national campaign to increase blood donations. The Lowell Technological Institute is one of many organizations participating in this campaign.

UNIQUE SUMMER SCHOOL FOR WOMEN

Lowell Technological Institute is offering a unique summer school for women. The school will be held from June 1st to August 1st.

The school will be open to women of all ages and backgrounds, and will provide an opportunity for women to learn about a wide range of subjects.

The school will be held at the Lowell Technological Institute Campus. There will be a fee of $50 per week, which includes meals and refreshments.

The school will be divided into two parts: one for engineers and technicians, and one for students and educators.

The school will conclude with a panel discussion on future trends in engineering technology.

PEACE CORPS TESTS TOWARD

Lowell Technological Institute students available for summer training programs will be given a special test. The test is designed to determine which students should be accepted for Peace Corps training.

The test will be held at 3 p.m. on Thursday, May 1st.

The test will be open to all students who are interested in the Peace Corps.

The test will be divided into two parts: one for engineers and technicians, and one for students and educators.

The test will conclude with a panel discussion on future trends in Peace Corps training.

THE GOOD ABOUT OUR SCHOOL SYSTEM

WASHINGTON — We are told that there is a classroom shortage in American schools, a classroom shortage that needs to be dealt with immediately. But we are also told that the classroom shortage is not a problem at all, that the schools are not overcrowded, that the problem is simply a matter of efficiency.

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THE TYPICAL WASH-AND-WEAR
STUDENT AT TECH

Assorted Graduate Passes

PATRICK W. B. BURK
RICHARD W. FERGUSON
DONALD F. GORMAN
GEORGE W. H. HARRISON
JANET L. HUNTINGTON
HELENE M. KLEIN
WILLIAM C. MCCABE
JOSEPH H. MORGAN
DEAN R. NELSON
ROBERT H. PARKER
PETER R. PENNIS
FRANK PHILLIPS
PETER A. PORTER
WILLIAM W. RICKWOOD

ASSOCIATED GRADUATE PRESS

CAROLYN B. ASHLEY,
ABIGAIL C. CRAWLEY,
HELEN E. HENDERSON,
ROBERT L. HICKS,
WILLIAM J. KEMBLE,
FRANK A. KLEIN,
GORDON L. LORD,
LOUIS J. MACKAY,
THEODORE N. MANSON,
WILLIAM D. MURPHY,
EDWARD R. O'BRIEN,
SUMMER M. PETERSON,
WILLIAM F. REIGHTER,
RICHARD W. RYAN,
ALAN S. TAYLOR,
WILLIAM W. WADDINGTON.

CLASS MEETINGS

Friday, June 1
4:00 p.m.
Professor Anderson, Department of Physics, led the meeting with a discussion on the latest developments in quantum mechanics. The professor highlighted recent experiments that have challenged the traditional understanding of quantum entanglement. The discussion was followed by a lively question-and-answer session with the attendees.

Tuesday, June 5
2:00 p.m.
Dr. Brennan, a renowned expert in astrophysics, presented a seminar on the origins of the universe. His talk covered the latest observations from space telescopes and their implications for our understanding of the cosmos. The audience was engaged throughout the presentation, with several fruitful discussions taking place after the talk.

Wednesday, June 6
10:00 a.m.
The annual departmental breakfast was held this morning, with the department chair leading the gathering. The event was an opportunity for faculty and students to network and discuss upcoming projects. Students presented their research proposals, and the chair provided feedback and advice.

Thursday, June 7
3:30 p.m.
A workshop on data analysis techniques was held in the basement of the physics building. The workshop was led by Dr. Robitaille, a specialist in statistical methods. Junior students and graduate students alike found the session useful, with many participants expressing interest in applying these techniques to their own research.

Letters to The Editor

Mr. Johnson, I am not for alick. I can see how the successful students at Tech adopt the wash-and-wear approach, but I believe it is a disservice to the institution. The typical student at Tech is expected to perform at a high level, and the pressure to conform to this stereotype can be overwhelming. It is important for students to develop their own identities and not feel pressured to fit a mold. What do you think about this issue?
Letters to the Editor

Dear Sir:

Frosty, 818 Gates played a concert on this campus as part of the All Tech Weekend. Many students were looking forward to hearing the Puritans, whose name sound which have been criticized elsewhere for Mr. Gates and his group. Apparently there were some last minute problems with the general usage which resulted in the event being canceled. The audience that night was composed of Techmen and their friends. It was obvious even though the concert was canceled, a few students were watching from the upper windows.

Richard Jentzsch, Class of 1964

Dear Sir:

At informative as the article was in the recent Text concerning Science Committee, neglected with the name of the director of the article. Perhaps it will be better if the article is written to reflect the appropriate style. I commend this person for a fine article, and excellent depiction of the true meaning of the word "screw". It is unfortunate that you do not choose to read Mr. Chud's article, skip this page. There just might be some students who like this article.

Bruce J. Farren, Class of 65

MEASUREMENT SEMINAR SCHEDULE

"THE SCIENCE OF MEASUREMENTs"
Optical - Electrical - Mechanical - Ultrasonic
SATURDAY, APRIL 27, 1963
LOWELL, MASS.
Sponsored by STUDENT COUNCIL OF ASTME
Morning Session 9:00 to 11:00 a.m.
9:00 A.M. Robert E. Young of Connecticott Hall
9:30 A.M. Mr. Johnson - Johnson Gage Co., speaker - "The Fundamentals of Screw Threads and Determinations of Their Accuracy"
10:15 A.M. "Air Gaging" Mr. Cunningham - Standard Gauge Co.
11:00 A.M. "Principles of Good Gaging" Mr. Tokers and Mr. Heath, National Gage Co.
11:45 A.M. "Precision Gaging in Millimeters" Mr. Symes, Taft Pierce Co.
12:15 P.M. Lunch
AFTERNOON SESSION 1:00 to 5:00 p.m.
1:00 P.M. "New Developments in Non-destructive Testing" Mr. Morgan and Mr. Abbott, Charles T. Morgan Co.
1:45 P.M. "Electronic Transducers in Precision Gaging" Mr. Carbon, Brown and Sharp Co.
2:30 P.M. "Applications of Gage Errors in the Electronic Field" Mr. Wehner, Minneapolis-Moline Corp.
3:15 P.M. "Measurement of Means of The Oscillometer" Mr. West, Tektronix Inc.
4:00 P.M. "Precision Gaging in Millimeters" Mr. Symes, Taft Pierce Co.
5:45 P.M. "Measuring and Means of the Oscilloscope" Mr. West, Tektronix Inc.

Registration for students is $5.00 for the entire day (includes luncheon). Registration after February 15 is $10.00. Reservations are requested. A limited number of hotel reservations will be made upon request.

Selectmen's Ball

The Selectmen's Ball will be held on the evening of Friday, April 26th, at the Inn, and is sponsored by the Selectmen's Association. It is open to all students and faculty, and is expected to be a very enjoyable evening. Reservations are recommended for this event.

Discussion on "The Use of Computers in Scientific Research"

"The Use of Computers in Scientific Research" will be discussed at a meeting to be held on Thursday, April 25th, at 4:00 p.m. in the Conference Room of the Engineering Building. This is a special event for students and faculty interested in the use of computers in scientific research.

Newman News

The new edition of the Newman News is now available. It features articles on topics such as "The Use of Computers in Scientific Research", "The Selectmen's Ball", and "The Use of Computers in Scientific Research". You can find it in the Newman News office, located on the first floor of the Engineering Building.

The Lampoon

The Lampoon is a collection of stories, poems, and cartoons that has been eagerly awaited by its readers. It is a unique publication that is known for its wit, humor, and creativity. This issue is packed with entertaining and insightful content, making it a must-read for anyone interested in the arts and humanities.

The Time Traveler

The Time Traveler is a feature that explores the history and culture of various scientific and technological advancements. This issue focuses on the development of the microscope, a device that has revolutionized the way we see the world. Through engaging articles and captivating illustrations, the Time Traveler offers a glimpse into the fascinating world of scientific discovery.
Saturday evening, March 30th, the Brothers of Pi Lambda Phi Fraternity participated in an event now sweeping college campuses throughout the world. For those people not familiar with this unusual sport of piano wrecking, I would like to explain the governing regulations and objectives:

1. The object of the sport is to destroy a piano in such a manner that the pieces of wood may be put through a hole 20 cm. in diameter (7.89 inches).
2. The team is limited to six or fewer members.
3. Any type of hand tool weighing less than 7 kg. (15.4 pounds) can be used.
4. The entire team has to pass through the hole—except for splinters weighing less than 500 grams (17.6 ounces).

In accordance with the above rules, a "piano reduction group" consisting of Norman "Paul the Bunyan" Turner, Howard "the hatchet" Merley, Richard "the mashers" Moses, Earl "Galoshes" Goldberg, Richard "Fatty Dick" Shifman and Alan "Fats" Chernick, established a new unofficial world's record of 3 minutes and 58 seconds.

This event was witnessed by many of the students at L.T.I. who enjoyed watching it as much as we enjoyed "tuning" the piano.

Thirty-seven Lowell Tech Air Force ROTC Cadets, accompanied by Professor Albert Waidlick, Captain William J. McClelland and Captain Warren M. Walker, participated in a six-day visit to Tyndall Air Force Base, Florida, during the recent Easter vacation. The group left from Granier Field in a C-97 airplane, piloted by Captain Morris Lambert, New Hampshire National Guard, who is also a student at Lowell Tech. Five hours later they landed in Florida, and in a matter of minutes had changed from Air Force Blue to swim suits and were enjoying the white sands of the beaches.

The L.T.I.'ers were given tours of Tyndall, which is an Air Defense Command Training Field. Here, pilots and radar observers learn to work together in supersonic aircraft such as the F-101, F-102 and F-106. Briefings on training of crews, personnel equipment, and the opportunity to observe radar operators direct the landing of aircraft were given to the visiting group.

Following the tours of the base, the cadets were able to take advantage of the many recreational facilities offered, water skiing, golf, fishing, boating and swimming were all available. Spreading information about Lowell Tech among students from some of the southern schools also occupied the free time of many of the group.

The sunburned delegation returned tired, but happy; glad they went, but also happy to be home.

There was plenty to eat and drink.

The fishing was good.
GEORGE HELEY GOLF OPEN

Tech golf team opened its season to the sad note of two straight triangular meet losses. They opened with losses to Florida A&M and Morris Ch. and 4-3 in the seventeenth match. John Grasias got a hole-in-one on the fourth hole at the University Club. It was the first hole-in-one in Tech's history.

On the holiday things were worse. The news was that Walt Wesener was to play in the Vesper. Tech again went down to defeat to Bates and Bowdoin. Now with a 20 point lead in the varsity club members and the faculty. This game would follow the team between the domers. We are sure the faculty would not mind a little bit of exercise to start the year.

We would like to hear from you, the students and the faculty, on what you think of our ideas. If we get enough response we can come true. Put your letters in Box 65A or drop them off at the Tech office.

The golf team is off to a slow start this year, but we are sure they will improve. We expect a strong showing next season. Look for the domers to shape their team up. We would like to congratulate Paul Holley and Dave White for being elected co-captains of this year's team.

In contrast, the baseball team is off to a fast start. They are now three wins and two losses and it looks like it will be a good season for Rusk and his boys.

The tennis team has their toughest match under their belts now, and Coach Olvier says that he expects a good season. We would like to wish all the sports teams here at Tech good luck in their spring games and matches.

GERRY GONVILE
Tech Club Pres'tnt

Since the latest issue, much has happened in the "hallowed halls" of L.T.I. tournament. The Departmental tournament was completed with IM taking EE for the championship. Congratulations to the winners for a job well done. The tournament, sponsored by the Varsity Club, was a great success and the efforts of Jim Hunt, the suggestions and help of Coach Olvier, and the members who volunteered their time and effort are greatly appreciated. The games fitted to fill, that is.

Boston Trip
A trip to see the Celtics play was made by thirty members, with much enthusiasm. The trip was a success and the team was much enjoyed by all. After the game, fifteen members hung around to cheer the team on.

Also going on the trip to guests of the Varsity Club were Rusk Tarnell, faculty advisor, Joe Koponyi, librarian, and Coach Hunt.

Plims
John Kukl. "The hatchet men," came up with some sharp- looking options for a reasonable price. Twenty-eight club members have ordered their members, if any other members with a need for them on their list, contact John

Future Plans
Coming events call for a committee to look into the types of awards given to participants. Also, work is to be started on a proposal for the annual Sports Banquet.

Due to the success of the basketball tournament, the possibility of an inter-faculty softball tournament has been looked into. Anyone interested should contact any officer of the Varsity Club.

Congratulations to club members Lscl, Laid, and to "honorary member" Hillard for receiving the Tech news award for excellence in reporting. The awards will be given out at a special banquet later this month.

Hats off to them also for their issue as Rusk's 35 years tenure here at Tech. Rusk deserves every bit of credit given to him. The idea of the Tech baseball team being successful is as possible, as well as the proper equipment for the players. Such a team will go far with the help from the varsity players or the intra-mural participants.

Sports Polls
Wishes to the baseball team, in hopes that they "pro- duce" their first winning season in years. George Lcslair, the only 200 hitter on the squad last year switched his shirt for a "vee" flag, a 400 hitter. Great luck, George.

It is that time of year when the V.C. should start thinking about next year's officers as well as the recipient for the Lastet Casing Award—on award given to the lettersman, usually a senior, who has contributed most to athletics at Tech, as well as to show outstanding sportsmanship.

Mike Charon claims to be the new Tidally Winks champion, but he is still looking for a challenge. If interested, contact Mike, Box 510.

SPORTS

CHEST MILENSKY

TCHJ NINE WINS 3, LOSES 2

On Wednesday, April 12th, Tech started its season on the right foot by defeating powerful South Florida 9-3 behind the one-hit pitching of Dave White. The Tech squad dropped in a 3-4 lead after one inning with George McHenry's grand slam driving in three runs. The long shot that scored on the base hit, a run, and a hit for Tech.

On Thursday, April 13th, Tech continued its winning ways with a 6-3 win over Connecticut. Tech scored three runs in the first three innings and scored two more runs in the fifth inning. The final score was 6-3.

Tech made its second straight win on Saturday, April 15th, when they defeated Gordon 8-3 behind starring Joe Lassiter's group relief pitching and a three long run home run over the left field fence hit by Dave White. Views of Tech's success were also shown by the base hit by Dave White.

Tech proved its worth again on Sunday, April 16th, with a 1-0 win over Eastern Illinois. Tech scored one run in the third and went on to win the game.

Barry Silverthorn was superb throughout as he effectively moved Tech into their home game via seven solid innings while walking only three. The easy 8-0 win by Tech was against the V.C. Tech now has two more games this weekend against Florida Atlantic, Notre Dame, and Tech Schwabs. They have not lost one point so far.

Addison - 10
SUFFOLK - 3

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And Now . . .

**MICROWAVE MOTORS!**

Through the last three generations we have essentially had two fundamental types of electric motors: dc motors and ac motors. There were several types of ac motors, but they were fairly well standardized. There has been much revolutionary news about electric motors since the turn of the century.

This was yesterday, or perhaps yesterday. The freckle developments in space technology has recently brought about drastic changes in our thinking about ways motors might be used for maintenance-free, thinner, higher power motors at a distance. While, at the same time, we cannot provide maintenance, any motor to be operated at a distance must be maintenance-free, which essentially means a brushed design. This matter of rotary motors at a distance is becoming more important by the day, and in the near future our curriculum will carry such subjects as "beam power transfer" and "radio motors."

We are happy to state that Lowell Tech is taking an active part in this race towards rotary motors at a distance, in the not-too-distant future. Dr. Stockman in the EE Department will shortly display a laboratory model of brushless radio frequency motor in operation. Working at about 30 Mcps, this motor derives its power from a nearby small tube oscillator, but the small distance used in the experiment is to no extent a measure of the distance that can be achieved in large scale experiments. The trend today in the radio frequency and microwave field is to provide higher and higher transmitted power, tunneled into a thinner and thinner metal beam. To the extent this can be done, power transfer over a distance will become a reality, and the progress made in the last few years exceeds that done in the entire history of radio transmission.

We leave it up to you dedicated students to figure out how the new motor works, but to give you an idea, a similar radiation motor, designed by Dr. Stockman, is shown in Fig. 1. Provided with a reflector, it is intended for microwave operation. The dipole antenna shown feeds a reflector network, that produces a direct current in an inductor L, suspended in a permanent magnetic field NS. Due to the single-loop form of the radiator and its pattern, self-commutation is secured, with rotation as result. Several antennas are made, with a regularly displaced inductor L, so that larger torque and the advantage of self-starting can be secured. With an upper cutoff frequency in the millimeter wave range, this motor lends itself to radar operations, and operated by a nearby or powerful radar, the motor may be made to rotate for practically any duration of time, since there is practically no maintenance problem. Other radars, which may be located at great distances from the motor, may be provided with an antenna of corner-reflector type, will receive a modulated return, that not only increases the effective range distance considerably, but also allows a much higher probability in target identification.

Dr. Stockman tells us that working on this problem the U.S. Air Force some years ago, he was able to increase the range of a certain radar about 50% by using modulated targets, and to provide positive identification of targets by a bearing signal.

Presently displayed in the EE Department is Dr. Stockman's Tunnel Dode Motor, which is a brushless device and the evidence of its high efficiency may be mentioned, that it runs about two weeks continuously on one battery. The student with the greatest hunger for knowledge holds up a strong magnet against the glass front of the show case.


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**UNIVERSITY OF THE SEVEN SEAS**

Dwight D. Eisenhower was greeted today with an enthusiastic roar in the chain of people to people relationships when he clinked the University of the Seven Seas previouse to President. Mr. Eisenhower was the recipient of the American Chemical Society. Special Student in Physics, George B. H. Stockman, was presided over by the President of the University of the Seven Seas.

In addition to these contributions, Executive Director, Dr. Barbour, of the University of the Seven Seas, announced the formation of the University's Seven Seas, for the news of the recent achievements in science and technology.

The ceremony was held in a large auditorium, and was attended by representatives of the University, the American Chemical Society, and other bodies.

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**EASTERN COLLEGES SCIENCE CONFERENCE**

The Seventeenth Annual Eastern Colleges Science Conference was held at Boston College May 8-10. Lowell Techological Institute will be represented by Prof. Ray H. Brown, who will give three papers on the subject of microwave transmission. In addition to Prof. Brown's papers, there were also two papers presented by students of the American Institute of Physics.

The conference was attended by students and faculty from many colleges and universities. A number of the papers presented were of interest to microwave engineers.

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**Guess who offered me an executive position with a leading organization, where I’ll get good pay, further my education, and enjoy world travel?**

My uncle.

In this case, nepotism’s a pretty good idea. And the best way to get it is through Air Force ROTC—because the Air Force prefers to commission its pilots directly from college. But if you couldn’t fit AFROTC into your schedule, you can still apply for Air Force Officer Training School. OTS offers college men and women an opportunity to assume great responsibility. When you complete the three-month course, you’ll be commissioned a second lieutenant, and be given a direct appointment to that effort. As an Air Force officer, you’ll be a leader on the Aerospace Team. We welcome your application for OTS now—but the same may not be true next year. So if you’re within 210 days of graduation, get full information from the Director of Air Science.
THE TEXT

FAUCETY VAIL

The completion of this academic year marks the 10th year in the teaching career of Professor of Social Sciences and Director of Guidance here at LTI. Professor MacLaughlin has taught for 10 years. When he was asked to join textbooks in the previous positions of responsibility, as judges, religious, and civil.

In recent years, Professor MacLaughlin has taught a wide variety of courses on campus. He taught a course on traditions of various religions and gave his students a perspective on the role of religion in modern society.

In addition, Professor MacLaughlin has taught a course on the history of Western civilization. This course covers the development of Western civilization from ancient Greece to the present day. It includes topics such as the Roman Empire, the Renaissance, and the Enlightenment.

Professor MacLaughlin has also taught a course on the history of technology. This course covers the development of technology from ancient times to the present day. It includes topics such as the Industrial Revolution, the development of the computer, and the Internet.

Professor MacLaughlin has taught many other courses as well. He has taught courses on the history of art, the history of music, and the history of philosophy. He has also taught courses on the history of science and the history of economics.

In addition to his teaching, Professor MacLaughlin has also been active in the university community. He has served on the faculty senate and has been a member of various committees. He has also been involved in the university's elected officials and has served on the university's budget committee.

Professor MacLaughlin has also been active in the local community. He has served on the boards of several local organizations, including the local historical society and the local arts council. He has also been involved in several local projects, such as the development of a new park and the expansion of a local library.

Professor MacLaughlin has also been involved in local politics. He has run for public office several times and has served as a member of the local school board. He has also been involved in local issues, such as the development of a new hospital and the expansion of the local airport.

In addition to his teaching and community involvement, Professor MacLaughlin has also been active in his research. He has written several articles on various topics, including the history of medicine, the history of education, and the history of technology.

Professor MacLaughlin's contributions to the university and the local community have been recognized with several awards. He has received the university's Distinguished Service Award and the local community's Volunteer of the Year Award.

In conclusion, Professor MacLaughlin has made significant contributions to the university and the local community. He has taught a wide variety of courses, been active in the university and local community, and has written several articles on various topics. His contributions have been recognized with several awards, and he continues to be an active member of the university and local community.

MODERN

CLEANERS

Formal Attire For Rent

Tuxedos and Gowns

Pine Street

Lowell

HEADQUARTERS FOR
Writing Paper

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Lowell, Mass.
STUDENT EXPENSES
from: Earl J. Watt, Coordinator of Special Services
At my request, a survey of the expenses of undergraduate students was taken to determine the financial crisis faced by students today. The following information is based on the results of the survey. The survey was administered by the Student Services Department of the University of Virginia.

The survey was administered to 1000 students in the fall of 1962. The sample was stratified by class and residence, with the objective of obtaining a representative sample of the student body. The survey was conducted by telephone, with interviews lasting approximately one hour. The survey was conducted by professional interviewers who were trained in survey methodology.

The survey results indicate that the average cost of living for a student at the University of Virginia is approximately $1500 per year. This cost includes tuition, room and board, books, and other expenses. The survey also found that the average student works part-time to help pay for their expenses. On average, students work approximately 20 hours per week at an hourly wage of $4.50 per hour.

The survey results also indicate that the majority of students receive some form of financial aid, either in the form of scholarships, grants, or loans. The average amount of financial aid received by students was approximately $2500 per year.

The survey results also indicate that the majority of students live on campus, with approximately 70% of students living in campus housing. The remaining 30% of students live off-campus.

In summary, the survey results indicate that the average cost of living for a student at the University of Virginia is approximately $1500 per year. The majority of students receive some form of financial aid, and the majority of students live on campus.