SCHOLARSHIPS PRESENTED

Late last month several special scholarship awards were presented at Tech. Among them was a $500 scholarship check shown being presented to Dennis A. Piermarini, student of Lowell's Institute of Technology, Leominster, Mass., second from left, by Alfred L. Sullivan, president of the Eastern New England section of the Society of Plastic Engineers. Piermarini is a junior at Tech, majoring in plastics technology.

Another $500 check was presented to Whatley, Mass., right, by Robert W. Clarke, LTI president, and Paul John, Jr., regional section officer of the Eastern New England section of SPE, to offer $10000 in all to LTI students.

Dennis A. Piermarini receiving Plastic Scholarship

Also included in the March awards were two $1000 Beverly G. Evelyn awards, one of which was presented to Robert F. Josephs, returning industry executives to the paper industry to the junior and senior in paper technology and chemistry. Her thesis, "The biology of the field" by left, is to eight of students. Richard W. T. Velleite, right, of Lowell, and Dr. Dominick A. Souza, head of the department of chemical engineering, presented the award.

The top pollock winner was Joseph F. Lithgow, of Massacum Regional High School, Waynoka, Okla., who was to compete in the 12th National Science Fair International on May 12. He is a senior at Massacum and was awarded the Navy Science Crash Award, which presents the privilege of using the Navy Science Center in August.

In addition to the projects there were other articles of interest at this year's Technorama. Among these special exhibits were Wesley's Shaw's Pathway III, Newt Matt's canoe and truck vehicle, and a Rogers sent from Baja, Calif., The Vanguard Army Society made arrangements for three special exhibits and acted as second-class under Technorama XX.

Following is a partial list of the winners:

To Darius A. Hinema of Connersville, Colo., for the New American Library of the World Literature award, to James F. Boardman of the Washington School, the Book Award of Chemistry, and the literature award, to John W. Frye of Illinois, the Chemistry Society award, to John F. Gooden of Grinnell School, the Merit Award, to the American Society of the Technical, and the Manufacturing Engineers award.


THOMAS F. KEIGHT AND NORMAN T. VELLETTE, recipients of Paper Scholarships

Chaplain To Visit AFROTC Detachment

Lt. Col. Benjamin C. Meeks, AFROTC, Commandant of AFROTC Detachment #348 at Massachusetts Institute of Technology, Lowell, Mass., Air Force Base, Altamont, Air Force, will visit the detachment on Thursday, April 6, 1961. The visit, which was arranged by the Staff Chaplain is to meet with cadre personnel and institutional officials. He will also address the Air Force's officers with 

Chaplain Tindall, a native of Washington, D.C., is the University of Oregon and Northwest Christian College, Eugene, Oreg., graduating in 1959.

She was retired from the War College, Air Force, Maxwell Air Force Base, Alabama.

Chaplain Tindall, a ordained minister of the Disciples of Christ Church and his pastoral work is at the American Legion Post, Washington, D.C.

LISTED ON FRIDAY, he presented the awards to the students. He was at Tech on March 31 and was presented with the Air Force's award, the AFROTC, of the year award.

Miss Mabel, a senior at the University of Oregon, and Northwest Christian College, Eugene, Oreg., graduating in 1959, was retired in the War College, Air Force, Maxwell Air Force Base, Alabama.

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SUMMER JOBS FOR COLLEGE STUDENTS

A directory listing summer jobs for college students is now available.

SUMMER EMPLOYMENT DIRECTORY consists of the names and addresses of more than one thousand organizations, in locations throughout the United States, that are seeking or will be seeking summer help during the coming summer.

Organizations available in resorts, ranches, government, service camps, hotels, business, industry, parks, museums, campgrounds, zoos, amusement parks, hospitals, executive offices, and related positions. Employers represent major institutions and private businesses.

The Summer Employment Directory is a comprehensive and up-to-date guide to the employment opportunities available to students of the summer months.

SUMMER COURSE IN PAPER TO BE OFFERED

A two-week professional advancement summer course in paper, its Properties and Uses will be held at the University of Lowell Technology beginning June 12 to 23 in the Department of Paper Technology. The course is designed to present in a practical way, information and practical experience in the handling and testing of paper and its use in the paper mill, and further information of paper making and the various processes involved in paper making.

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ABSTRACTS OF GRADUATE THESES PUBLISHED


Copies may be obtained by writing to the Graduate School, Special Services.
THE TEXT

Published twice monthly during the college year, except on holidays or during vacations by the undergraduates of Lowell Technological Institute. "The Text" is the only student publication of the college. Opinions expressed in signed columns are those of the writers and are not necessarily the opinion of THIS TEXT. Advertising rates upon request. 

THE TEXT 

ASSOCIATED COLLEGIATE PRESS
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Business Manager: Gerald J. LaFleur
News Letterman: Paul C. Fink

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A NOTE

I would like to apologize to the freshmen and the others that do not realize the sarcastic meaning of these chosen as the Editorial Board of the Technicians. The apology is for giving the impression that the freshmen have had any participation in the Technicians. The Technicians was put out by the Text whose members are made up of the mass of this issue.

WHY HOW?

Why is the building at Lowell State Teachers College being completed so fast? The building was started only once and none of the walls are coming along. Our new (?) building was started several years ago and still has not been accepted by the state. Why does the school persist in having the same contractor build each new building for our school?

How can Boston University increase its budget approximately three and one half million dollars over the current fiscal year without increasing tuition? Lowell Tech is having trouble increasing its budget an amount needed to the school.

Are we getting an Atomic Reactor? If we are, why has work stopped on its construction? Is the school accepting 700 freshmen next year? If they are, what will be done about lectures? What about the amount of freshmen? When will the new "building" be opened? What is being done about the situation in Chem. Lab. Why does the U. of M. have so many buildings programs, while L.T.T. can't even open its building.

Do the various courses of varsity sports receive additional pay for this activity? If they do not, why? If they do, how much is it? What is the amount raised by the school?

Why isn't something done about the badminton and tennis clubs that exist on the school before looking at the student parking lot?

What's holding up the opening of the new building? Why isn't the library open in the classrooms?

Have any certain teachers gone mad with spending in and out the quadrangle without care for pedantry?

Is it that posters left over from the freshmen election still hanging on the walls?

Why don't the drivers who park back of the P-L building slow down near puddles and avoid splashing students? Pity the poor freshman in his RTOUC uniform who gets in their way.

Why isn't the floor in 318 swept more often?

Will the library really be ready for next semester?

APATHY

Mourn not the dead that in the cool earth lie,
For whose better that one dead than we,
Mourn not the death of the disconsolate who can no more
Than resort from the burdened eyes to sigh.
Sirs, nor the corpse nor the epitaph thereon.
Who sees the world's great anguish and its wrong.

ELECTION RESULTS

Class of 1962

President

John Luther 115

Blacks 12

Vice-President

Donald Brooks 113

Blacks 14

Ralph J. Blank 109

Bruce Miller 106

Secretary

James B. Millar 120

Blank 1

Treasurer

Raymond Lambert 124

Paul Meagher 109

Blank 1

STUDENT COUNCIL REP.

James A. Alonzo 110

Blank 1

CLASS OF 1963

President

Jim Delahunt (R) 120

Blacks 16

Jerry J. Gaffney (R) 114

James Hunt 128

Blank 1

Vice-President

Robert Brown 119

Blank 1

CLASS OF 1964

President

Peter Steinfield 120

Richard Lee 48

Leon White 19

Vice-President

Charles Hadley (R) 77

David Day (R) 72

Blank 1

Secretary

Al Estrada 139

Blank 1

Treasurer

Thomas Cussen (R) 81

Blank 5

Blank 2

Student Council Rep.

Gordon Granger 71

Robert Naess 87

Blank 7

VOTE IN THE RUN-OFF

WHOSE POWER IS WHOSE

I don't like the idea of being a muck-raker, but we can't clean it up and leave it there at the same time. If the people don't want the power, they can't have it.

When the Text "organization" submitted a constitution to the Student Council, after its approval, the Student Council inserted a clause which would give themselves the right to compel the Text to print any letter which they wished. It looked as if someone were going to grab for more power. Could anyone be trying again to gain control of the newspaper? Attempting to get hold of the Text have all been made in previous years. But I will make no personal accusations. The Student Council members were elected by you, and any attempt to gain this was justifiable. Or were we too lazy at our elections?

As a whole, the American people are aware of the power that any organization can have, and so the leader becomes too powerful. Consider Eisenhower for evidence of this. He was a great, but he was not smart enough; the people always gave him a Democratic Congress as a check on his power, and the last possible thing that the Student Council had control of our paper without going through an impartial channel, the Dean, we will be delegating them as much authority as University and student communities. Each student member could easily control the paper to his own benefit. If the American people recognized this, they would be given an authority for any one man, why shouldn't the Text refuse to give the Student Council a carte blanche in the government of the newspaper?

WE FORM OUR OWN FUTURE

by Daniel Heneghan

In the United States there are many political parties. Among them we have the Republican, the Democratic, the Liberal, Socialist, Workers Party, and many lesser known ones. When election time rolls around, almost every con-

stituency has a political slate of candidates for the national elections. Segments of the country's population rally behind one or another slate not only because of their beliefs, but also because it's time for politics and noise making. Campaigning is at its height, regardless of the logic which some people choose to use to decide. Everyone in the country from 10 to 100 years old participates, only if it is his duty and his fair share. In fact, the Communist countries, with their totalitarian form of government have national elections, with a number of candidates not only running for the four offices, but also for all unlimited elections to be held. The date of the election and campaign posters are up at school, but the only thing the student body interested in was writing phrases on the clear portion of the posters. The result was that as the students got excited with their election business the question arose: WHO IS HE? WHO IS SHE? That was bad enough, but the idea of the cake came when only one name appeared on the campaigns poster. What did for political activity was that if all as Lowell Tech was a country and we were the population of that country. I don't think we would be looking upon as the most anarchistic country in the whole free world.

Many class and club elections are about to take place here at Lowell Tech. The student body will be expected to be listened to and be respected by each and every member of the student body if we want it that way. In our cases, we, as both students and citizens, are the voice of ourselves. If we set the way our constitution and by-laws dictate to us or we can control the way we want to spend our, if you please, compliance and apathy.

Become interested in your club and class functions, take an active part in each, when elections come, choose a candidate and be a part of your country, Lowell Tech. Let's not become another burning Rome.

STUDENT COUNCIL PROPOSAL EXECUTED

Dean Ivers has accepted a Student Council proposal for a change in the class rings. The new rings come in twelve, fourteen, and sixteen sizes, with prices ranging from about $55.00 to $75.00. The rings are unexpensive than last year's ring, but with the increase in price in aluminum, the increase in value. The rings are broader and wider, with a special prismatic sealed back that prevents dirt from getting between your finger and the stone. Keeping rings clean is quite a task, but if there is any time, there is no need to worry about getting them engraved before the last two digits of the graduation year and a lamp of knowledge on the other side of the ring after the ring is set. The size of the ring is much the same as the old, except for the fact that all the engraving done is done larger due to the greater width. The feminine counterpart is a miniature of the new design, although it is much larger than last year's. Any of you who likes the old class better can have it, but at the price of twenty-three dollars. The rings are at the bookstore now, so drop in when you've got some free time and don't forget the four dollar deposit.
SOLUTION TO THE "LADDER PROBLEM"

The ladder problem is the topic of an article written in "Bentz-Butterworth on the back page of the March issue of the Text". The text resulted in much unnecessary speculation on the part of students. Assuming one had a fairly broad background of simple high school math, and had used a ladder to the 6th floor, the problem would easily be in one's mind.

The solution, short and simple, is as follows: Anyone using the ladder in a building should know that the ladder, when it is slanted up against the wall of a building, has a base and a leg. The student is asked to solve this problem, which can be solved by a series of trigonometric equations.

To simplify the laborious process, simply multiply each of the thousand of fundamental equations of the problem, be it a construction problem or a design problem, by the easiest answer that can be obtained. The number of degrees in each ladder is easily obtained by the expression: Sangle = (90 - angle of ladder) x (1/3 of the length of the ladder). The actual number of feet in each ladder is given by (1/3 of the length of the ladder) x (1/3 of the length of the ladder). This number is taken as 20 feet in the following example.

Plenty! Consider the problem, Western Electric. In the March issue of "Bentz-Butterworth" the text dealt with the fundamental problem of the "Ladder Problem". The problem was presented in the form of a question, and the answer was given in the form of a solution. The solution was based on the assumption that the ladder was slanted at an angle of 30 degrees to the ground, and that the distance from the bottom of the ladder to the ground was 10 feet. The solution then proceeded to calculate the length of the ladder, which was found to be approximately 14 feet. This length was then multiplied by the height of the building, which was given as 20 feet, to obtain the total length of the ladder. The solution was then presented as a practical method for determining the length of a ladder, which could be used in a variety of situations.

Pre-College Refresher Courses to be Offered

Pre-college refresher courses for students entering Lowell Technological Institute as freshmen next fall will be offered in six-week and four-week sessions in the LTI summer program, Prof. E. P. James, director of the program, announced. A feature of the LTI pre-college program will be a special series of guidance conferences, arranged to help incoming students make an acceptable transition to the academic disciplines at the collegiate level.

In addition to the usual courses in chemistry, English, mathematics, and physics, will be presented in both the six-week and four-week sessions, and plane trigonometry will be offered in both of the six-week sessions only. The six-week sessions will be from July 17 to Aug. 30 and the four-week sessions from July 21 to Aug. 31. Only students planning to enter LTI will be accepted for these pre-college courses.

Comments from the students in the summer sessions will be solicited, and feedback and curriculum may be obtained by writing to Prof. E. P. James, Director of Summer Session, Lowell Technological Institute, Lowell, Mass.

SPORTS QUIZ

1. Who won the downhil and slalom division in the women's division? E. P. James, the sports director of the American Bicyclette Association, has compiled his annual list of the 100 most exciting and dramatic events in the world of sports. The list includes everything from boxing matches to bicycle races.

2. What is the height of the highest mountain in the world? The highest mountain in the world is Mount Everest, which stands at 8,848 meters (29,029 feet) above sea level. It is located in the Himalayas, in the border region between Nepal and Tibet.

3. Who is the current world champion in the 100-meter dash? The current world champion in the 100-meter dash is Usain Bolt of Jamaica, who set a new world record of 9.58 seconds at the 2008 Olympic Games.

4. What is the world record for the 1500-meter run? The world record for the 1500-meter run is held by Paul Keres of Estonia, who set a time of 3:29.60 in 1963 at the World Track and Field Championships.

5. Who is the current world champion in the men's basketball? The current world champion in men's basketball is the United States, which won the gold medal at the 2012 Olympic Games.

6. What is the record for the longest time spent in space? The record for the longest time spent in space is held by Valery Polyakov of the Soviet Union, who spent 437 days in space from March 21, 1995, to March 21, 1996, on the Mir space station.

7. Who is the current world record holder for the 200-meter butterfly? The current world record holder for the 200-meter butterfly is of the United States. The record is held by Michael Phelps of the United States, who set a time of 1:51.89 at the 2008 Olympic Games.

8. What is the record for the longest time spent in space? The record for the longest time spent in space is held by Valery Polyakov of the Soviet Union, who spent 437 days in space from March 21, 1995, to March 21, 1996, on the Mir space station.

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10. What is the world record for the 100-meter dash? The world record for the 100-meter dash is held by Usain Bolt of Jamaica, who set a time of 9.58 seconds at the 2008 Olympic Games.

The answer to this question is: The record for the longest time spent in space is held by Valery Polyakov of the Soviet Union, who spent 437 days in space from March 21, 1995, to March 21, 1996, on the Mir space station.
THE ORIGIN OF THE UNIVERSE

by Victor DiRienzo

It has always been the alluring game of mankind to speculate upon the origin of the universe - to seek the explanation of things - the fundamental question of the origin of the universe. To grasp that meaning is the only possible fundamental starting point which requires justification for itself, but which is to be regarded as secondary in importance. The question of the origin of the universe has always been a question which has impressed the thinkers of all times.

The first book of Moses called Genesis states that in the beginning God created the heavens and the earth. God knew that this was his world, the dry land, herbs, trees, stars, moving creatures and finally a man and a woman called respectively Adam and Eve, who supposedly are our parents, from whom we are descended. This is the first proof of the theory that would be in vain. One must merely accept it on faith.

This research paper would probably be limited to the above myths if, during the sixteenth century, theologians backed by millions of religious believers had succeeded in smothing science. Obviously such was not the case, for in that period science was disbelieved by the other countries of the world. The first scientist to gain a foothold during these critical years was Galileo, who pioneered in science of truth. The field of learning was too sacred for him to make any inroads into the realm of thought. He pioneered in something that was too difficult for the world to understand. He was talking, novelty to a world that was blind, and showed that it couldn't be wholly confined to the ballot box. It was not until the time of Galileo believed that the earth stood still, and the sun, moon, and planets were guided by angels around it. Galileo wrote a treatise attacking the theory that the earth was the center of the universe. He proved that two words that were to. The belief was considered heresy by Pope Urban VIII and his court, and in 1622 after being ridiculed and humiliated, Galileo continued to publish his statements. It was only at the time of his death that Galileo was believed to be the true.The life of Galileo. He lived in an age when there was little tolerance for one who did not abide to the thoughts of the day. To question the learning of the past was arrogance - to discover new truths was blasphemy and so he was ridiculed and humiliated. Because he lived in a world reeling with superstition and rabid by the dogmas of an ancient past, a world which was destined only a year later to see the birth of Newton, his name was to become as famous as Newton. Newton's contributions plus those of others who followed, such as Darwin's and Einstein's saw supernatural mysteries quickly, and the church was unable to explain away. The support which the origin of the universe gave way to more credibility theories involving natural processes.

The physical universe embracing the many stars, planets and nebulae had a beginning, and that beginning must be attributed to one of two factors: a supreme being who supposedly always was and always will be, or a forerunner manufactured by the laws of nature. Nearly 2,000 years have passed since an external object, always remains invaluable and immovable, and of time; "Absolute true mathematical time flows, on by virtue of its own nature, uniform, and unconditioned". In 1687 Lockwood announced publicly his hypothesis establishing the space-time continuum. "Henceforth, space in itself and itself in time to sink to shadows and only a kind of union of things. The real, therefore, and the manifest is the result of the famous Michelson-Morley experiment of 1887, which proved that the real absolute time is space and space is the measure of time. Einstein's objective was to eliminate everything relative in order to discover what is absolute in the universe.

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Avoiding the direction of the universe - the beginning and will have no end.

If we assume that time had a beginning, something time-like must have preceded it. Same holds true if time is to end, something time-like must stretch beyond. If it is reasserted that Einstein's space-time continuum is built on the assumption that space and time are independent entities, it would be useful to ask whether there is a limit to the space and time. If time and space are independent, then space and time cannot be absolute, because there are no such things as absolute space and time.

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Avoiding the direction of the universe - the beginning and will have no end.
FRATERNITY ELECTIONS HELD

Officers for 1961-62 have been announced by three of the four campus fraternities. Chi Phi, Sigma Chi, and Phi Delta Theta have announced their new officers for the year.

PHI PSI NEWS

The election of officers marked the close of the season for Phi Psi. All the members with these new officers the best of luck and wish them to be the most successful officers on a job well done.

Congratulations are also in order for Douglas Davis who recently married Kathy McDonald at Milford, Mass. All wish him the best of luck, Dix.

The March 15 stand party was a tremendous success which was in part due to the many freshmen and upperclassmen showing an interest in Phi Psi. To all these freshmen, who made the party a success and to our most able cooks who prepared the enjoyable meal you have the sincerest thanks of all the members of Phi Psi.

While we are on the subject of parties, plans are now under way for the last freshmen date party. The time is April 24, semi-formal dance with a playboy theme. This party promises to be the best yet so we can’t wait to see you and our Phi Psi — in playboy style.

We wish to note in passing that Phi Psi has again retired the basketball trophy. This makes four out of the past four years Phi Psi has been champs.

The softball team under Jerry Lyons, has renewed practice this year, and the prospects are bright. The losing of the softball trophy last year by one game barely a year ago is no indication of the present Phi Psi team.

The members of Phi Psi wish to thank Prof. and Mrs. Huracan who chaperoned our party Saturday night.

ANSWERS

1. Rapido Nosesnik
2. Jack Kokowski
3. Carl Yastrzemski
4. Gary Flowers
5. Leslie Salisbury
6. Roger Peterson

NEW TESTS FOR LAW SCHOOL CANDIDATES

In the fall, perspective law students will need to pay more attention to the development of their writing skill and their knowledge of the contents of this year’s law school Admissions Test, now required by 44 of the nation’s law schools. The written test, called the Admissions Test, will include separate parts of writing ability and general knowledge of college subjects. This test is designed to determine the candidates understanding of important ideas, events and cultural developments of the past and present.

In its present form, the Law School Admissions Test is administered in a single half-day session and is designed to measure aptitudes closely related to specific aspects of the study of law. With the addition of new test sections, the scope of the test will be broadened to include the measurement of achievement in the areas of writing and knowledge of cultural background and it will occupy a full day. Separate scores will be recorded for the writing test, the writing test, and the test section of general knowledge.

Courses that develop cultural and broadened the background of college students have also been added to the curriculum of the law schools. These changes are being undertaken at Lowell Tech.

Tech Senior Appointed

To Navy O.C.S.

Bruce Alfred Tennessen has been appointed to the Naval Officer Candidate School at Newport, R.I. Bruce Tennessen is the holder of the Dr. Geoffrey Strooband Scholarship and a Commonwealth of Massachusetts Scholarship. He is also a Delta Zeta Student and is secretary of the Paper Engineering Society.

At the Officer Candidate School Mr. Tennessen will study Naval Origi- nal and History, Gunnery, Navigation, Seamanship, Engineering and Operations during the four-month training period. Upon successful completion of the course, he will be commissioned Ensign, U. S. Naval Reserve.

THIS YOUNG ENGINEER IS ON THE ROAD TO MANAGEMENT

Dick Cotton knew he wanted to take the engineering route into management long before he joined New Jersey Bell Telephone Company. In fact it was his goal when he was working for his engineering degree at Rutgers.

When he graduated, he had lines out to eleven other companies. He came to New Jersey Bell because "I didn’t feel I was just a number to these people. There was no ‘I’m going to make a big deal of this job’ this would be the best for the long pull"

He looked for a tough one. A complex of major telephone cables lay in the path of the approach to the new traffic level of the George Washington Bridge on the Hudson. Dick’s job was to find the most economical way to reroute these cables, and at the same time to provide for future telephone growth in the area around the bridge approach.

Dick was not one and got a crack at another tough job.

Next stop, New Jersey Bell Headquarters Engineering Staff, Special Studies Group. Here Dick was a member of a four-man team whose job was to find ways to eliminate some of the routine work of field engineers to give them "more time to think." Dick also helped plan and control a $100,000,000 annual telephone construction program.

Previously, Dick is responsible for telephone equipment engineering projects in the Canadian, New Jersey, area.

How does Dick look at it? "This is a growing industry and I feel with this growth every day. And growth means more room at the top. Of course, I don’t figure I’ll get there overnight—but on my job so far I’ve had a chance to take up some of the things I thought when I first came in that the sky’s the limit for a man who really wants to work for it.

If you’re a guy who can take a tough job and deliver the goods—then you’re the kind of man who can make a very fast track.

FREDERICK W. KENY, President
American Telephone & Telegraph Co.

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BELL TELEPHONE COMPANIES
THE ORIGIN OF THE UNIVERSE

Continued from page 4

ter matter, so could not have created it, and since scientists believe that the universe is homogeneous and isotropic, so that on other inhabited planets far out in space we may logically assume that the same organic relationships exist between matter and mind. There appears to be no alternative to the conclusion that matter conspires from space substance. Once grant that space has the potentiality to bring forth one atom of balanced proton and electron, it follows logically that others would emerge; therefore, after the lapse of billions of years when the first atom has been duplicated innumerable times, it is reasonable to assume that by a hit or miss method, these particles would eventually crystal-ize in what we call laws of nature, which in reality are no thing more or less than our interpretation of the way nature appears to act. If the conception hypothesis is con-ceived, matter when sufficiently aggregated would begin its organization into stars; globular clusters and nebulas.

With space-time and matter theoretically accounted for, we may now hypothesize the formation of the solar sys-tem. A satisfactory hypothesis for the origin of the solar system must first account for the existence of the planets, satellites and asteroids. It must then explain how they were set in motion in the remarkable manner already known, and must theoretically provide the system with the observed amount of angular momentum. Many hypo theses have been proposed to account for the formation of the solar system, one of the most prominent being the Planetary System. The theory advanced by C. T. Chubberrle and R. F. Moulton at the early part of this century. They proposed that a passing star raised gigan-tic tides on the sun. A large quantity of matter, several times the present masses of the planets was then ejected from the sun's surface and sent spiraling around it by the passing star. The quality was lost or fell back into the sun, but past remain-ed, with a highly elliptical motion. The gaseous clouds then condensed into planets at various distances, the orbits of the planets having the same drift as the sun's rotational drift, the gradual further ramifying the planet's path, the rotations and the satellite systems. Within a twenty million years after the sun, the formation of the planets would have been essentially complete.

Cooling and solidification of the planets were now in order. All members of the solar system, excluding earth, besides being either too close or too far from the mother sun, did not meet the required conditions necessary to sustain life. Earth, occupied an area, that is, a distance from the sun, and possessed the optimum conditions necessary to support life. Within a period of six billion years so, the lowest area of life, from the earth into the creature we now call man.

It is the general belief of a number of scientists that man's appearance on earth and possibly on other planets suitable for life, resulted from combinations of many un- planned contingencies that were conclusive to life. Sir James Jeans once wrote that it is almost inconceivable that the universe could have been designed primarily for the appearance of life, another of his books was titled, "Life is a mere accident and quite unimportant by-prod-uct of natural processes which have some other more immense and profound end in view; it is of the nature of a disease that affects matter in its old age," Shapley of Harvard convinced us that the formation of the solar system, ex-cluding earth, surface of a planet, and Kallen asserted that "Man is an incident in a world that was not made for him."

"It is the greatest creation in the universe — a creation similar in form to his creator — a creator who supposedly is absolute. He can do all and everything, is solely including everything, is but the accidental birth of a carefree nature, which stood upon conditions that permitted life.

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DOE TO AN ATHEIST

You say there is no God
but find me the bounds of space
and I shall show you God.

by R. E. L.

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DATA CASSETTE EXHIBITED

During a previous flight from Alex and Titan ICBM flights was exhibited in Cambridge hall at Lowell Technological Institute Friday April 8 at 7:30 p.m. by the American foursome of experts, and A & M. Corporation by special arrangement with the Vandenberg Air Base at Trona, Cal.

Five recoveries were made in 1960 of Alex-developed retrieval vehicle which successfully entered the earth's atmosphere at an ICBM-flight speed. All the cases turned out to be good and showed that the vehicles were lined in test of differentuede. Some major additions made to the ICBM-recovery system since the temperature of over 12,000 F. Fahrenheit. The data cassette is the information contained on a tape recorder inside the recovery vehicle that is ejected after the recovery.

Avalon data cassette showing recovery balloon inflated and radio antenna erected.

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INDUSTRIAL MANAGEMENT

SOCIETY, Inc.

Blood Bank Award

The award of 500 was made to the I. M. Society for achieving the highest donor percent of giving membership on campus, 47%. Due to the recent success of the last dinner meeting and the endowment of the student society, the body held another meet-ing on Thursday, May 18, at the Square House. In keeping with the society's objective, another guest speaker from the business world was present who clarified the students views on what to expect from the business and industrial field.

To climax the school year, an outing to the San Diego Museum was arranged, a ring-tide outing to take place at Point Loma on May 18. No plans were set and your dates early. Congratulations also to Ed McGarvey, I. M. Society President, who was elected to the position of Trustee of the Student Council.

And in conclusion we have worked for a few definitions for you.

A Reliable Source — the guy who just met you.

A Surprised Source — the guy who told you just last night.

A Stu Source — the guy who started the rumor.

As most of you have noticed during the past year or so we are a mass mailing of matter and information. If you want to look up them as conferences in business world is present that substitute for the great enterprise of the business of thought.

Business men's

philosopher

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JOIN THE JOHN OAK SOCIETY

To join, simply turn in the answers to the questions. For each of the questions there are five possible answers, four of which are obviously wrong and one that is correct. Mark the correct answer by putting a check in the box so that the finished form is just like this diagram.

[Diagram]

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Business men's

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