Dr. Harrison Receives Medal for Contributions to Physics

Dr. George Russell Harrison, Dean of the School of Engineering at the Massachusetts Institute of Technology, has been awarded the 1953 National Academy of Sciences Medal for his contributions to physics. The medal recognizes Dr. Harrison's work in atomic physics, particularly in the study of atomic wavelengths and perturbations.

The award is being made for the development of ingenious spectroscopic methods which automatically determine spectrographic data. His work has culminated in the development of the M.I.T. Wave Length Tables.

During World War II, Dr. Harrison was Chief of the Optical Division of the Office of Scientific Research and Development in the war also Chief of the Division of Physics. He also served as Chief of the Office of Scientific Research and Development.

Fullbright Awards Give Chances for Foreign Study and Research

Opportunities for approximately 800 Americans to undertake graduate study abroad during the 1954-55 academic year have been announced by the Fulbright Act and the Burton Cross Convention. The Fulbright awards will enable students in all fields of graduate work and those with specialized research projects to study in foreign institutions and universities under avant-garde professors and specialists.

The student must register under Public Law 584, 70th Congress, the Fulbright scholarship program of the United States to use certain foreign curricula and credits acquired through study in the United States for programs of educational exchange with other nations.

Gradual Scholarships Abroad

The 1954-55 Fulbright scholarships will not be available for American graduate students wishing to study at a British university.

Marshall Scholarships Granted To Americans In British Universities

Beginning in the academic year 1954-55, twelve Marshall Scholarships will be available for American graduate students wishing to study at a British university.

The Marshall Scholarships have been established by the British Government as a gesture of friendship and cooperation with the United States. They are intended to provide education and research opportunities for American graduate students who wish to study in Great Britain.

First Convocation Features Program By Musical Clubs

The War and Glee Clubs will entertain the entire student body at the October 5 Convocation as the first public performance of the Institute Musical Clubs of the new season.

Freshmen Hear Address By Institute President During Class Meeting

"College offers young people an opportunity to discern themselves, a process which is part of the development of an adult," Dr. James R. Killian, Jr., President of the Institute, told members of the entering class of 1957 at a class meeting held in Rockefeller Chapel Thursday night.

"In this opportunity of self-discovery," Dr. Killian said, "it is good, provided the student knows that freedom requires maturity. If one wants the freedom to be free, one must have the responsibility to maintain an orderly community within which all may live. A knowledge of the rules and men who enforce and maintain the rules becomes part of one's education.

"Every college must maintain an orderly environment where each man gives up a little so that every man can have a lot."

Must Be Competent Citizen

"... it is good, provided the student knows that freedom requires maturity. If one wants the freedom to be free, one must have the responsibility to maintain an orderly community within which all may live. A knowledge of the rules and men who enforce and maintain the rules becomes part of one's education."

Dr. Killian emphasized the importance of preparing men to be competent citizens of the new government. "It is our conviction," he said, "that you can be neither an effective scientist, nor an effective manager, nor an effective citizen, unless you have some understanding of our society and of how human relationships. These objectives, which reflect themselves in our program at the Institute, . . . illustrate our concept that a great institute of technology must have first-rate science and first-rate general education if it is to educate first-rate professionals."

Dr. Killian went on to say that a college is truly performing its function, it must prepare its students to bring out the very best that is in every man and every woman.

He explained that the student should be neither an institution that is college and, in so doing, develop a sense of values, a feeling for the first-hand experience, standards, and a recognition of what is beautiful, true, and good in people, in books, in work, and in life.

Speakers at Thursday night's read-

Ross Photographs

Now Exhibited At HaydenGaller

An exhibition of photographs by Donald Ross is now on view in the New Gallery of the City of Harvard Memorial Library of the Institute and will continue until October 20.

Speaking of his work, Mr. Ross said: "It is always my purpose in photography to discover the nature of whatever object I may photograph. I had this sort of view when I began to take my own intellectual problems and look for moral, political, or social solutions. And I was convinced that the visual clues give way to simple generalizations.

Dana Ross resides in Berkeley. (Continued on page 4)
The Tech

VOL. LXVII
Tuesday, September 22, 1953
No. 27

MANAGING BOARD
General Manager .......... .... D. A. R. Schade, 54
Editor .................. Shing-Tung Yao 
Assistant Editors ....... Edward H. Wyllie, 56
Business Manager ........ Martin B. Mills, 54

EDITORS
Make-up .............. Darrell W. Logan, 55
City Editor ............ Co-Sports 
Sports Editor ............ Co-Sports
Re- producer ............. Field Sports

STAFF MEMBERS
Executive Editors ............ Charles C. Mathers, '56
Managing Editor ............ Herbert J. Allen, 55
Assistant Managing Editor .......... F. Benjamin Scott, 56
Assistant Editor ................. Warren Haines, 54

OFFICES OF THE TECH

PUBLISHER .............. George Eddy, '45
Managing Editor ............ William 4. Hartley, 55
Assistant Managing Editor .......... Ernest J. O'Donnell, 54
Assistant Business Manager ... Edward D. B. Back, 55
Business Manager ............ Martin B. Mills, 54

CIRCULATION.............. Raymond J. Szmerda, '54

NAME OF THE TECH........... The Tech

WELCOME--AND WELCOME BACK

The time has come, when once again vacation experiences are exchanged — the summer's exploits, reminiscently described to friends and then stored in the recesses of the memory to be replaced by new exploits of the coming year. Much reliance is being placed on the freshmen this year; the class of 1957 has no alternative but to welcome all classes back and wish them good luck in the coming year.

It is extremely likely that this will be the last in a long series of "welcomes" offered to the class of 1957. The freshmen have, by now, become full fledged members of the M.I.T. "community" (by virtue of their registration cards) and have had their first taste of classes at the Institute.

Full integration will probably come slowly but the initial shock of a new environment is over. Their roots now upon the freshmen themselves and their attempts toward becoming adapted — their ability to get along with others.

It is in this realm that the insecure freshman finds difficulty. Certain factors are present, however, which may account for the conflicts. An individual naturally finds security and as "at-homeness" among members of his own group and conversely an antagonism toward outsiders. It is the unfortunate freshman who must make the efforts to break this barrier to his inclusion in the group. It is a two way process, moreover, of latercourage and communication between the freshmen and upperclassmen which will most rapidly allow them the feeling of security.

Although the Freshman Advisory Program is designed to accomplish just that, it may well require a pause for self evaluation on the part of each of us to assure ourselves that as upperclassmen we have not developed an exclusive, unnatural "we-group" attitude toward the new student.

A WORD TO THE WISE...

It occurs to us that there is a very real conflict in a technical school such as M.I.T. from which grows a distress that is not limited to over-earnest freshmen, or their over-indulgent and doting parents. It is a contradiction which fosters illusions of laborious study— that work is as hard as one's imagination will allow, or as difficult as the sympathetic members of his family think it to be.

The involvement of normal instinctive activities (a decision which is reached when young men intend to become largely devoted to serious study) is unfortunately the source of much of this distress. It is certainly the unfortunate freshman who embarks upon a career of constant study which leads only to greater illusions of work and hence to withdrawal from all forms of diversion, no matter how important they may be to well rounded development.

... IN LOVE AND WAR

A certain amount of fair play was lacking at the Freshman Assumption Dance last Saturday when fraternity members and upperclassmen "removed from action" several of the girls before the dance had even gotten under way. That these men were present at a dance designed for freshmen only should have at least compelled them to give the frosh a break.

The dance, however, was a successful one and congratulations are in order for the Freshman Coordinating Committee.

PERSONAL

By John Sailor '55

Gladsome frosh from home cooking, with row nurses soothed by the sleep-inducing spell of television and concert dinners of small boy combinations, the average student has returned to Tech. Hoping to acclimate himself to the atmosphere by grand re-explore, he came early, but found activity already underway. The week before registration is a merry-weather time, with unpacking and freshmen and various odds and ends of business to be transacted. One can hardly wait until all the handshaking and the old, old routine—"Udoba, you have a nice sum-
mester?"—fades into oblivion and normality returns.

The place is still the same in terms of general appearance, but there are a few new, and some welcome, changes.

For one thing, on the credit side many a undergraduate is all ready strained from staring at the latest crop of coeds. Opinion is ever overwhelmingly favorable, and the girls have found themselves to be the center of much attention. Chivalry is being flaunted again in, of all places, the Walker dining hall, where freshmen have been carrying trays for coeds — in a completely altruistic spirit, of course! The favor has spread to some of our less indifferent upperclassmen. If you hear them discussing their latest exploits in a quasi-modest "it really isn't that wonderful" tone, then's it's more than likely that some innocent frosh coed is there, wide-awake and overwhelmed by the broad experiences of her suave admirer. If you're interested—well, the inexperienced Froshmen to the rear and gentlemen, please don't shelve! Big events of the moment around campus is "What are they going to do with all these stakes?" The overdone toothpicks planted in the rear of the library have caused much commotion. The following suggestion for their existence is that they will grow and slightly soft trees sheltering the fragile members of the English and History Department from the starting rays of the late afternoon sun. It is more probable that the stakes were set to submerge the internal athletic program of East Campus residents. An accompanying sign, however, may unfortunately position near the library building, bear witness to this motivation and to a certain lack of sense concerning the seasonal trend of athletic activity. It says to wry, "Positively No Baseball Playing Allowed."

For those looking for entertainment, Boston and environs currently abound in fine movies. "The Crusoes" at the Esquire, "Prom Food To Eternity" at the Orpheum, "The Moon Is Blue" at the Astor, and "Roman Holiday" at the neighborhood theaters are all extremely enjoyable. The legitimate theater season is painting more and more promising picture. Several new or eight new plays will probably be in New-England theaters and still be obtainable, as well as tickets for the Sadler's Wells Ballet in October.

And then, if you have any spare time, there's always studying.
EDUCATORS ALL OVER AMERICA APPROVE Paper-Mate PENS

EVANGELINE FAHY
Principal
Lawson School
Chicago, Illinois

FATHER C. J. STALLWORTH
Principal
Jesuit High School
New Orleans, Louisiana

LENA McCULLOUGH
Principal
Webb School
Terre Haute, Indiana

ROSS LARSEN
Principal
Asiam Junior High School
Amarillo, Texas

LEWIS SLOGGETT
Principal
Terrell, New York

WALTER COOPER
Principal
Wichita East High School
Wichita, Kansas

VIRGIL BIBLE
Principal
Brainerd Junior High School
Chattanooga, Tennessee

RICHARD WATTS
Principal
Baldwin Junior High School
Montgomery, Alabama

FATHER PAUL KELLY
Principal
Riordan High School
San Francisco, California

JOSEPH MAHAN, JR.
Instructor
University of Georgia
Columbus, Georgia

"I used a Paper-Mate Pen to write the Gregg shorthand textbook."

SAYS
LOUIS LESLIE
Author, GREGG SHORTHAND SIMPLIFIED
Gregg Publishing Division
TYPING SIMPLIFIED
American Book Company

No other pen gives you the matchless writing luxury of the Paper-Mate. Paper-Mate's exclusive formula X-217 ink is guaranteed to out-perform any other ball pen ink in the world. No other pen has won nation-wide acclaim of principals, teachers, bankers, aviators, mothers.

Here's Why

THE PEN CAN'T LEAK
THE INK CAN'T TRANSFER

BANKER APPROVED
Available in 5 Colors
Color Refills 49c
UNCONDITIONALY GUARANTEED FOR 20 YEARS

PENS AND REFILLS ON SALE EVERYWHERE

GET A PAPER-MATE TODAY!

$169 EVERYWHERE
Beaver Varsityes
Hope New Year Brings Successes

Now that we’re all back here for another year, the 1953 fall athletic season will be opening shortly. Despite the fact that the Institute is not noted as a producer of great athletic teams, we do have varsity representatives of every intercollegiate sport with the exception of football. This fall both varsity and freshman teams will compete in cross country and soccer. In addition there are the Field Day sports, and the rugby and sailing teams.

Prospects for the year are better than average. Coach Oscar Champion’s cross-country team has four of its best five runners returning from last year’s successful team. Led by Captain John Farquhar ’54, the harriers should enjoy a very good season. The outlook for the new edition of the Beaver soccer team is fairly bright, as a host of letterman, led by high scorer Ralph Mandigo ’53, returns for another season. The ’52 team won two, lost six and tied one, and this year’s outfit should bring in greater success. The team come on Field Day, when the American Physical Society, and the Glee Club will perform at Mount Holyoke College, and the Glee Club will tour the Eastern seaboard, playing in New York City, Philadelphia and possibly Washington.

New Athletic System

The Tech pulser course is beginning swimming for those who fail to pass the 100-yard test administered today.

In addition, a new program of athletic tests has been introduced for incoming students. These include: Group I, push-ups, sit-ups, and other exercises, and Group II, including broken-leaf running, broad-jumping, and basket-ball throw. Those tests were given last Friday.

Ross Photographs

(Continued from page 1) California, where he was born in 1915. From Berkeley Public School he attended the University of Texas (1934). He has worked in the field of advertising photography with the Walter Thompson Company. His photographs, frequently shown in San Francisco have been in 1948 and a group show in 1950 at the San Francisco Museum of Arts.

SELECTIVE SERVICE TESTS

postmarked to later than midnight, November 2, 1953.

According to Educational Testing Service, which prepares and administers the College Qualification Test for the Selective Service System, it will be greatly to the student’s advantage to fill his application at once, regardless of the testing date he selects. The results will be reported to the student’s Selective Service Local Board of Jurisdiction for use in considering his deferment as a student.

MIT Musical Clubs

(Continued on page 1)

Dinghies Painted

(Continued from page 2) the most sprightly to indicate wind direction, but they tended to foul in wind against the crew, they were subject to error because of deflection of the wind by the sail, and they could not be used on half the Institute’s dinghies since they have no staying around the stay, they were subject to error because of deflection of the wind by the sail, and they could not be used on half the Institute’s dinghies since they have no

THE COLLEGE DANCE CLUB

What a date! A good time?

You will have both at the College Dance Club Dance, held every Friday night at the Hotel Roosevelt and every Saturday at the Somerset. Attendance is restricted to college students, graduates and their guests. One must be a member to purchase a ticket. Membership cards may be obtained, proof of educational status is submitted, i.e. college ring, bookstamps, library card, etc. Membership is co-ed. Just ask a member. The dances are loads of fun. This will be the eighth worthwhile year. JOIN IN MAYSTY - JOIN NOW. 52.15 OVIS

When you smoke Chesterfield it’s so satisfying to know that you are getting one cigarette that’s low in nicotine, highest in quality.

A fact proved by chemical analyses of the country’s six leading cigarette brands.

And it’s so satisfying to know that a doctor reports no adverse effects to the nose, throat and sinuses from smoking Chesterfield.

The doctor’s report is part of a program supervised by a responsible independent research organization and is based on thorough bi-monthly examinations of a group of Chesterfield smokers over a period of a year and a half.

Chesterfield is best for me—my steady smoke for 7 years.

Ben Harrison

WORLD’S GREATEST GOLFER

Copyright 1953, Loewy & Brand Tobacco Co.