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The Tech



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VOL. LXXIII. NO. 40.

CAMBRIDGE, MASSACHUSETTS, TUESDAY, NOVEMBER 10, 1953

5 CENTS

Wide Variety Of Scientific Topics Discussed At National Academy Of Science Meetings

Molecular And Solid State Physics Topic Of Lecture Tomorrow In 6-120

Numerous papers on a wide variety of scientific topics are being presented at the Institute at a conclave of the National Academy of Sciences. About 120 members of the Academy are attending the affair which started here yesterday and will continue through tomorrow.

In addition to the several sessions for the presentation of papers, two symposiums are planned — one this morning for biologists and biochemists on "The Muscle Machine and its Functions," and a second tomorrow morning on "Molecular and Solid State Physics."

The highlight of yesterday's proceedings was a joint lecture by Dr. Harlow Shapley, Director of the Harvard Observatory, and Dr. George R. Harrison, Dean of the Institute's School of Science, on "The Production and Use of Solar Energy."

This morning Professor Albert G. Dietz, Director of the Plastic Research

Project at the Institute, spoke on "High Strength Plastics," such as those from which the hulls of the Nautical Association dinghies are built. His presentation included a display of samples of plastic materials, including the body armor used so successfully in Korea.

Nautical Assoc. Sponsors Dance In Baker, Friday

Baker House will be designated as Pier 362 for the sailing of the S. S. Titanic this Friday evening. The gangplank will be lowered at 9 a.m. The ship will be scuttled at 1 a.m. when all persons will be required to take to their life boats and float away.

Passage for two on the ship will cost \$2.50. Included in this cost is music by George Graham and his orchestra and free use of the ship's bar. Free drinks, unlimited in number, will be available to all attending. Tickets are being sold by the "North Cambridge Packet and Gunboat Service." All tickets state the assigned table and lifeboat.

Newly Revived
This dance, sponsored by the Nautical Association, was an annual affair several years ago. The Association is trying to put the dance back on its fall schedule. *The Tech* has been informed that only nine tickets to the dance are presently available.

Library Houses New Lounge For Seminar Classes

In an attempt to remedy a lack of proper teaching conditions for certain humanities courses, a new Seminar room has been built on the third floor of the Hayden Memorial Library. This room was designed by Professor Herbert L. Beckworth of the School of Architecture, for the benefit of those subjects that can be taught more easily in the informal atmosphere that a classroom can not provide. Financial assistance for its construction was obtained from Carnegie Funds for the General Improvement of Humanities. This was a necessary step since budget cuts would have made the construction of the room otherwise impossible.

The new Seminar room will eventually be equipped with many modern conveniences never before included in an Institute classroom. It is not finished as yet due to a tieup in the delivery of furniture but classes are already being held. When completed it will include a projector, a projection screen and a three speed record player. The floor will be carpeted, draperies will cover the blackboard, and easy chairs and ashtrays will replace the usual classroom seats and floor respectively.

In previous years several teachers have found it necessary to hold classes in their homes. This has proved inconvenient to both instructor and student alike and it is hoped that the Seminar room will remedy this situation. The International Relations Seminar is already using it and upon completion it is expected to prove an integral part in the Institutes policy for the improvement of the Humanities Department.

Dr. Harrison Speaks Of Solar Energy Use; Lectures At Institute

Parts of the text of Dr. George R. Harrison's speech at the Public Lecture of the National Academy of Sciences' Autumn Meeting held Monday in room 6-120 are quoted below. Dr. Harlow Shapley, Director of the Harvard Observatory, joined Dean Harrison in presenting the Lecture on "The Production and Use of Solar Energy."

"The standard of living of man, savage or civilized, depends primarily upon the availability of energy and on his ability to control it. In the United States our annual real income has increased more than four-fold in the past fifty years, mainly because about four times as many horsepower are available to feed, clothe, house, protect, transport, educate, and entertain each citizen as in 1903. All of this, even the energy newly released from the nuclei of atoms, comes or has come to us from the sun.

Old Sunlight Available
"Nearly three-fourths of the energy we use currently came to earth as sunlight ages ago, and was stored first by photosynthesis in plants, and then by the processes of nature in coal, oil, and gas deposits, which we are now rapidly depleting. The other fourth, including all energy stored in the molecules of foodstuffs, made its eight-minute journey from the sun only recently.

"More than 20,000 times as much energy as mankind uses for every purpose comes to the earth as sunshine each day. We should, then, be able to live amply on our energy income, yet we do not; most of this, passes wastefully through our fingers, and we draw from our limited energy reserves for most of our needs. How long this can go on depends on how soon we are willing to accept a lowered standard of living — a standard which need not fall at all if we are alert, but can be carried to undreamed of heights.

Variation In Radiation
"But soon our investigator is likely to become disheartened by the many ways in which this energy can elude his grasp. The sun is overhead only part of the time, and since he must be able to govern the flow of energy at will, he needs a method of storing it which will not be so expensive or wasteful as to offset or destroy its value. Because there is great variation with the seasons in the influx of solar radiation at a given spot, and because the sky may be overcast for long periods, the storage system should hold energy with little loss for six months or more. Nature has developed such a system in the photosynthesis which occurs in plants, but this, though most effective, being respon-

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\$1800 Of \$4800 Goal Collected By T.C.A.; Drive Set To Go On

By Norman G. Kulgein '55

With only \$1800 out of an expected total of \$4800 collected as of last Sunday night the Technology Christian Association's annual drive will continue for an, as yet, unannounced period of time.

This low return was due mainly to two causes. Firstly all the solicitors working on West Campus have not turned in the money they have collected. When they do so, probably sometime next

week, the \$1800 total will increase quite considerably. The second reason for the low return is that all students living on campus have not been contacted. Many of the solicitors are not themselves T.C.A. members and it is believed that they may have done their job haphazardly. With this in mind T.C.A. plans to contact personally each student who has not contributed to the drive. It is hoped that this will make it possible for all students who wish to contribute to do so.

Almost all of the money collected by T.C.A. in these annual drives is returned to the Institute family in the form of services rendered. These include the maintenance of Tech House, the ticket service which last year did \$23,000 worth of business, sale of used text books, and the maintenance of movie projectors and multigraph machines for student use.

In a telephone interview with *The Tech* Emmanuel Otis '54, president of T.C.A., said, "The money collected does not pay secretaries but comes back to students through the many services which T.C.A. offers. T.C.A. depends on students and only on students for support. If this support fails T.C.A. will collapse. We hope all those who have not contributed will do so as soon as possible."

Beaver Harriers Take Third Place In New England

Paced by the fine running of Captain John Farquhar '54, the Engineer varsity cross country team pulled down a third place in the New England Championship meet at Franklin Park this Monday afternoon. The meet was won by the University of Massachusetts, with Northeastern a close second.

Farquhar was easily the Beaver's top man, as he finished behind the two leaders, winner Ed Shea of Northeastern and Johnny Kelley of Boston University. Farquhar was among the leaders for the entire race, and although he could not overtake the first two men, he had a sizeable advantage over his closest rival at the finish line.

After Farquhar it was a long drop to the next Tech man, with David Palamountain '56 and Ray Smith '56 finishing 19th and 20th respectively. The other Beaver runners were Hugh Nutley '54, finishing 25th, Sture Bengston '55, who placed 34th, Larry Berman '55 and Harry Schreiber '55. Among the others, Bengston, in his first year of active competition, is especially to be commended for his fine performance. Perhaps the biggest disappointment was the showing of Berman, usually up among the leaders, who had a very poor day, finishing well back in the field in 41st place. A better showing by Berman might have given the Beaver team a better showing on the whole.

Final tabulations gave Massachusetts 82 points for first place, Northeastern 83 for second, and Tech 97 for third. The remaining teams were well back.

Frosh Place Ninth
Earlier in the afternoon, the Beaver frosh placed third in the freshman event. The leading Techmen were David Vaughan in 23rd and Peter Carberry in 25th. Providence College was victorious in the freshman meet, and Tufts placed second.

A more detailed account of both meets will appear in the next issue of *The Tech*.

InsComm Report On Discrimination Nears Completion

The Institute Committee sub-committee on discrimination in M.I.T. student organizations is scheduled to complete its investigations of the twenty-six Institute fraternities this week. Later in the term, the Discrimination Committee will present its reports to Institute Committee. These reports will be available for the public to read.

According to current plans, the committee will prepare reports on each of the fraternities individually, and a single report will be written, condensing and summarizing the others. The individual reports will describe each fraternity without naming it. No recommendations will be included in the reports.

Information about the fraternities was gathered personally by committee members. Members took individual questionnaires to the fraternities and interviewed the president or another fraternity representative.

(Continued on page 3)

Pershing Rifles Initiates Pledges In Special Week

The National Honorary Society of Pershing Rifles began its annual Fall Week for pledges yesterday. The society, formed in 1894 by the then lieutenant John J. Pershing, is for members of the basic courses in Army and Air Force ROTC. Initiates to the Pershing Rifles are chosen at the beginning of each term, but must undergo a period of military training in addition to that of the regular ROTC program, the last but not least feature of which is Hell Week.

During this period pledges must wear fatigues decorated with rope taggeres. In walking about the Institute they must cut all corners at a square military pivot and march in cadence. To test their ability a plank must be filled with signatures of the established members, who, of course, are often very uncooperative. The pledge manages to get all the

(Continued on page 3)

National Military Society Initiates Thirteen Juniors

Last week several members of the student body could be seen carrying rifles and wearing an odd assortment of uniforms. The occasion for this was the semi-annual hell week of the Society of Scabbard and Blade. The Blade is a national honorary military fraternity for juniors and seniors enrolled in the Advanced Corps ROTC.

The hell week was culminated by a field problem which took place Friday night. Directly preceding this was a Board of Review. The board determined just exactly how many bricks the initiates would carry on their march. All of the groups headed out successfully but after about two hours in the rain, sleet, hail, and snow, the directors of the march decided to call everyone in to avoid injury. All but one of the groups were recovered in short order. The missing group had been given the wrong map and consequently headed in the wrong direction. The members spent about three hours looking for these men. They finally were called by the police and informed that their group had arrived at the police station. The members have not been formally initiated as yet but they will be in a short time. However they will be considered as full fledged members except that they cannot as yet wear the cord and ribbon.

The purpose of the organization is to raise the standard of military training in American colleges and universities. After the original selection, the basis of membership is on merit alone. The society was founded at the University of Wisconsin during

(Continued on page 3)

Professor Valley Appointed Lincoln Associate Director

Dr. George E. Valley, Jr., Associate Professor of Physics at the Institute, has been appointed Associate Director of the Lincoln Laboratory, an electronic research project operated by the Institute for the Department of Defense, Dr. Julius A. Stratton, Provost, announced late last week.

Born in New York City in 1913, Dr. Valley received the degree of bachelor of science at M.I.T. in 1935 and doctor of philosophy at the University of Rochester in 1939.

He then served at Harvard University as a research assistant (1939-

40) and as a National Research Fellow (1940-41).

In 1941, Dr. Valley joined the staff of the Institute's Radiation Laboratory's Office of Publications.

Nuclear Physics Specialist
Appointed assistant professor of physics in 1945 and associate professor in 1949, he has specialized in nuclear physics and cosmic radiation.

In 1948, Dr. Valley was awarded the President's Certificate of Merit, the nation's second highest civilian award. He is also a Fellow of the American Physical Society and a member of Sigma Xi.

The Tech

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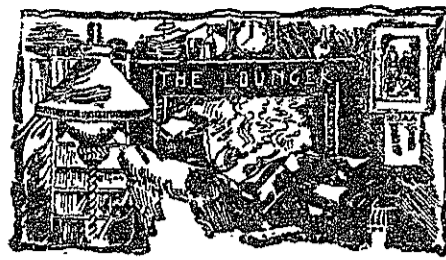
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by John Seiler, '55

Much has been said in recent months about a broadening of the intellectual vistas here at Tech. The progress on the auditorium and planned chapel, coupled with an augmentation of staff and scope in the School of Humanities and Social Studies attest to a changing attitude about technological education and its limitations.

In a talk given to an undergraduate convocation last month, Dr. Vannevar Bush stressed the importance of carrying scientific research beyond materialism to a broader understanding, saying, "It is the duty to so live that there may be a reason for living, beyond the mere mechanisms of life. It is the duty to carry on, under stress, the search for understanding."

The effect of this gradually shifting emphasis will not be felt in force for several years, but already several conversions from materialism have been reported. One engrossing case came to our delighted attention within the past week.

It seems that an advanced humanities class had become deeply involved in Plato's concepts of "virtue" and "moderation" and "justice" as advanced in *The Republic*. A short, but violent argument on absolute standards, as such, ensued. The instructor successfully defended his position and led the group to what he felt was an obvious answer — that man cannot find peace with a purely materialistic life and must therefore turn to the questioning of his existence in order to come nearer to satisfaction. A seemingly satisfied silence greeted this statement, but was suddenly broken by a hoarse gasp from a quiz-weary engineering student in the back row. Rising to his feet, he glanced wild-eyed about the room, speaking with the faintest hint of regret in his voice.

"I'll be damned," he said, "I've never had the time to think about it before. Just why am I living?"

The fall's big weekend is long since past; but a few sharp memories are still with us. One Tech man's face still turns livid shades of red when he is reminded of J. P. and its aftermath. Having driven around the countryside for several hours or so, our intrepid hero, bleary-eyed but happy, finally brought his girl to her hotel at 6:30 a.m. They walked through the deserted lobby, took the elevator to the fourth floor, and lingered in parting for a few sweet moments. The girl went to her room and our hero remounted the elevator which carried him swiftly to street level. Sauntering briskly through the lobby, bow tie awry and lipstick smeared prominently over his face and whistling "Oh, What A Beautiful Morning," the

young man found himself face to face with the desk clerk who had mysteriously appeared from some hidden alcove. The clerk, superciliously suspicious, bowed slightly. With a frosty smile of disapproval and a biting "Good morning, sir," propelling him, our doughty young hero retreated in sudden and undesired disgrace.

Up the river a piece, there's some sort of a college for budding business executives and others of that ilk. Very recently, a group of students there were drumming up spirit (whatever that might be) for an imminent football game (football being a game long out of favor in this part of the collegiate world, but still indulged in by our cruder contemporaries). Some eight hundred intellectuals were preparing to make noisy mischief in the Square, when the college constabulary

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Calendar of Events

WEDNESDAY, NOVEMBER 11

Armistice Day. Holiday.
 Order of DeMolay—"Tech" Chapter. Meeting and First Degree. Hayden Library Lounge, 7:30 p.m.

THURSDAY, NOVEMBER 12

Economics Department. Seminar: "Britain's Economic Relation with the Commonwealth and with the World." Mr. Austin Albu, Labor Member of British Parliament. Room 52-432, 3:30 p.m.
 School of Architecture and Planning. Lecture Series on Experiencing Architecture—VIII: "Colors in Architecture." Professor Steen E. Rasmussen. Room 7-427, 4:30 p.m.
 Lecture Series Committee. Films: "The Informer" and "Winter Story" by Walt Disney. Room 1-190, 5:00, 7:30, and 9:30 p.m. Admission: 30 cents.

FRIDAY, NOVEMBER 13

Modern Languages Department. Deadline for applications to take graduate language examinations.
 Mechanical Engineering Department. Seminar: "Mechanical Control and Measurement to Fractions of a Micro-inch." Dean George R. Harrison. Room 3-370, 4:00 p.m. Coffee in Room 3-174 from 3:30-4:00 p.m.
 Nautical Association. Semi-Formal Dance. Baker House, 9:00 p.m.-1:00 a.m.

SATURDAY, NOVEMBER 14

Informal Dance Committee. Dance. Morss Hall, Walker Memorial, 8:30 p.m.

MONDAY, NOVEMBER 16

Aeronautical Engineering Department. Seminar: "Preliminary Design of Airplanes." Mr. Julius Schliemann, Chance-Vought Aircraft, Boston. Room 35-225, 4:00 p.m.
 Mathematics Department. Lecture Series—I: "Semi-groups of Linear Operators." Professor Ralph Phillips, University of Southern California. Room 2-232, 4:30 p.m. Tea in Room 2-290 at 4:00 p.m.
 Lecture Series Committee. Newsreel Program: 1937-43; wartime propaganda films. Room 10-250, 5:00 p.m.

TUESDAY, NOVEMBER 17

Mathematics Department. Lecture Series—II: "Semi-groups of Linear Operators." Professor Ralph Phillips, University of Southern California. Room 2-232, 4:00 p.m.
 Metallurgy Department. Colloquium: "The Structural Properties of Glass from the Point of View of the Metallurgist." Professor Frederick H. Norton. Room 35-225, 4:00 p.m.
 School of Architecture and Planning. Lecture Series on Experiencing Architecture—IX: "To Hear Architecture." Professor Steen E. Rasmussen. Room 7-427, 4:30 p.m.
 Christian Science Organization. Subject: "Blood and Sacrifice." Litchfield Lounge, Walker Memorial, 5:15 p.m.
 American Society of Mechanical Engineers—Student Branch. Dinner meeting and lecture: "The Merits and Objectives of Engineering Education." Mr. Frederick S. Blackall, Jr., President, A.S.M.E. Smith House, 6:30 p.m.
 A.D. Little Memorial Lecture: "Psychology, the Machine, and Society." Dr. Leonard Carmichael, Secretary of the Smithsonian Institution. Morss Hall, Walker Memorial, 8:30 p.m.

WEDNESDAY, NOVEMBER 18

Departments of Mathematics and Physics. Operations Research Seminar: "Search Theory in the Analysis of Consumer Shopping." Mr. Wroe Alderson. Room 6-219, 3:00 p.m.
 Mathematics Department. Lecture Series—III: "Semi-groups of Linear Operators." Professor Ralph Phillips, University of Southern California. Room 2-232, 4:00 p.m.
 Catholic Club. Meeting. Room 2-190, 5:00 p.m.
 Chemistry Department. Harvard-M.I.T. Physical Chemistry Colloquium: "Low-Level Radioactivity Measurements." Dr. John S. Waugh, Harvard University, Mallinckrodt MB-23, 8:00 p.m.

EXHIBITIONS

Photographic Salon prints by Herman M. Bates of Worcester will be displayed in the Photo Service Gallery, Basement of Building 11, through November 16.

An exhibition of "International Watercolors" by leading contemporary artists (Moore, Nicholson, Appel, Auborg, Wyeth, Feininger, etc.) will be on view in the New Gallery of the Charles Hayden Memorial Library through November 23. Hours: Monday through Friday, 9:00 a.m.-5:00 p.m.; Saturday, 2:00-5:00 p.m.

Photographic Salon prints by Grant M. Haist of Rochester, New York, will be on display in the Photo Service Gallery, Basement of Building 11, from November 17 through December 20.

CALENDAR OF EVENTS

The Calendar of Events appears in *The Tech* on Tuesday with announcements for the following eight days (Wednesday through Wednesday). Notices, typewritten and signed, must be in the office of the editor, Room 7-204, not later than noon on Thursday prior to the date of publication. Material for the Calendar of November 18-25 is due November 12.

YOU CAN'T GET A GIRL WITH A GULP



OR.. How do you know when your best foot's forward?

Once there was a Senior who was Shy. (Look, this is a story. It permits certain liberties with the truth.)

He'd call up a Girl, stammer incoherently through the Preliminaries, gurgled helplessly through the Bicuspid, and hang up. Dateless. One day his room-mate took him in hand. "Herman, old buddy," he said, ... and unfolded a Plan.

Next day the Big Girl on Campus got a Telegram. A terse message. Simply: "Will pick you up at eight P.M. Friday. Regards, Herman H. Glockenspiel." She was Intuckered and waiting when Herman sheepishly up the steps of her Sorority house.

"Are you Herman H. Glocken-

spiel?" she cooed. "Ulp," said Herman. "Ooooh," she said, taking his arm. "I just love Original, Masterful Men." Herman was on his way.

Now Herman has more dates than the Syrian Desert. Still makes 'em all by Telegram. No fool, this Herman.

When you've got a Date in mind — Whether it's with the Campus Queen, a Smith Siren or a Big Moment Back Home—a Telegram has the Man-of-the-world Approach that pleases. Equally effective, too, for birthdays, Mother's Day and Easter Messages, congratulations, or yaps to Pop for Cash, or to Sis to Airmail you The Baggy Sweater. Just call Western Union and see.

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Washing Rifle Initiation
(Continued from page 1)
necessary signatures, perform the tasks which seem to go along with his duty, he is formally initiated as member of Company C-8.
Among those Freshmen undergoing (all Week are: Gerald Alport, Ralph Lartera, Alex Bernhard, Richard Bruce, Robert Burns, John Christian, Leon Cyros, Donald Delaney, Alan Jodes, Jay Hammerness, Kenneth Harrison, Albert Klainer, William Kohlbrener, Stanley Kolis, Oscar Morgenstern, David Perry, Robert Rocus, Robert Rosin, Robert Sandberg, Philip Simons and George Vaughn.

DormComm Has First Conference About Leadership

Dormitory Committee held its first Leadership Conference this past weekend at Tech House. Members of Dormitory Committee and the three house committees, and several invited guests from the faculty and student body attended the meeting.
Vice Admiral John L. McCrea (retired), vice president of John Hancock Mutual Life Insurance Company, de-

livered the keynote address Saturday morning in the Library Lounge. After lunch, the group moved to Tech House, where they participated in informal discussions on various aspects of dormitory life.

Admiral McCrea, in his address, compared leaders in military and in civilian life. He said that the three qualities necessary in any leader are that he know his stuff, be a man, and be fair to those under him.

The informal discussions at Tech House were on acclimating new members of dormitory student government to their new position; stimulating student responsibility and interest in activities; communication between the various groups on the Institute campus; student government organization; the responsibilities of the hall chairmen; and getting freshmen settled in the dormitories.

Dr. James R. Killian, Jr., president of the Institute, addressed the conference on recent and contemplated advances in the educational program here. Dr. Killian answered questions from the group on the topics he had mentioned and Charles Masison '54, president of Dormitory Committee, brought the conference to a close.

Discrimination Report

(Continued from page 1)
Committee members are: E. Dale Strait, '55, chairman; Reginald Griffith, '55; Oliver Johns, '56; Harry Schreiber, '55; William Layson, '56 and Eugene Mathot, '56.

the college press

by John Dixon

Although *The Tech* has, strangely enough, ignored the fact, it is generally known around the Institute that a couple of Boston's most significant theatrical institutions are seriously threatened. The philistine political leaders of the city seem determined to extinguish the art which hitherto flourished in the Old Howard and the Casino.

This issue was considered significant enough down in New Haven to rate a front-page article in the *Yale Daily News*. In one of its daily articles on the subject, the *Harvard Crimson* declared that, "In Boston, as elsewhere, the exotic dance should be as unfettered by censorship as it is by clothing."

Meteorology

Our nomination for the neatest prediction of the year is a comment from the editorial page of the *Yale Daily News* of last Wednesday: "We can't remember a warmer, pleasanter fall — but it can't last." It was only two days later that mile-a-minute winds brought five inches of snow to New Haven. The U. S. Weather bureau, which didn't predict a storm until their anemometers blew away, could take a cue from the *News*.

The eight Ivy League colleges have announced a plan to establish a formal league for the first time in their history. By 1956 each of them will be playing the other seven. This will necessitate a few schedule changes.

Harvard isn't the only school in the area with a new president. Tufts College has recently appointed Dr. Nils Y. Wessells as its eighth president. According to the *Tufts Weekly*, Wessells, a 35-year-old psychologist, is the youngest college president in the United States.

Western Morals

The Intercollegiate Press reports a revision of the social code at the University of Colorado. The release (a bit hard to comprehend here in the dissipated East) reads in part:

"The faculty senate committee's liquor policy, members state, is an experiment and a compromise involving a minimum of rules and a maximum of individual and group responsibility. Liquor provisions state that no alcoholic beverages are allowed on campus or in University supervised houses (residence halls, sorority and fraternity houses, or University approved rooming houses). All-school functions such as Homecoming, etc., are included in this rule."

Smith College

Out at Smith College, the girls are resisting the effects of "creeping parkingism." In marked contrast to the general Institute attitude, the students there resent the replacing of lawns with parking lots. Members of Lawrence House, picketing the creation of a new lot, composed "The Lawrence House Address," a few scraps of which follow:

"Approximately one score years ago, the Kingsmen brought forth on

Professor Reethof Granted Fulbright Award To Finland

The Fulbright Committee at the Institute has been notified by the United States Department of State that Professor Gerhard Reethof of Cambridge, Mass., an assistant professor of mechanical engineering, was awarded a U. S. Educational Exchange Grant for 1953-54.

Professor Reethof will participate in the International Educational Exchange Program as a lecturer in machine design at the Institute of Technology in Helsinki, Finland.

The award is made under the provisions of Public Law 584, 79th Congress, the Fulbright Act. It is one of approximately 375 grants for lecturing and research abroad included in the program for the academic year 1953-54. As provided by the Act, all candidates are selected by the Board of Foreign Scholarships, the members of which are appointed by the President. Lecturers and research scholars are recommended for the Board's consideration by the Conference Board of Associated Research Councils, which has been designated to receive and review the applications of candidates in these categories.

The funds used for carrying out the program under the Fulbright Act are foreign currencies realized through surplus property sales abroad. Under executive agreements with foreign governments, programs are currently in effect in the following countries: Australia, Austria, Belgium and Luxembourg, Burma, Denmark, Egypt, Finland, France, Germany, Greece, India, Iran, Iraq, Italy, Japan, the Netherlands, New Zealand, Norway, Pakistan, the Philippines, South Africa, Thailand, Turkey, and the United Kingdom.

this campus a new parking lot, situated on Green Street and dedicated to the proposition that faculty members will have cars.

"We are met on the outskirts of said lot. We have come to dedicate a portion of that lot as a memorial for those who here gave their afternoons that their sun-tans might live . . . It is for us, the protesting, rather to be picketing here the unfinished work which they who dig here have thus far so blatantly advanced . . . that campus of the students, by the students, for the students, shall not be turned to tar and dirt."

Russian Expansion

The *Queens Journal* of Kingston, Ontario, has printed an article which appeared originally in the *New York Tribune* of April 12, 1853. After a brief description of Russian schemes of "annexation and aggrandizement" the article concludes:

"And as sure as conquest follows conquest and annexation follows annexation, so surely would the conquest of Turkey by Russia be only a prelude for the annexation of Hungary, Prussia, Galicia, and the ultimate realization of the Slavonic Empire. The arrest of the Russian scheme of annexation is a matter of the highest moment. In this instance the interest of democracy and of England go hand in hand."

The article was signed—Karl Marx.

Freshmen Course In Public Speaking Offered This Year

In line with a revised policy towards the Freshman curriculum, a new course in Public Speaking for first year students has been inaugurated this year. The course, which is under the English Department, is taught by Mr. Richard Markus, and meets on Mondays and Wednesdays at 9:00 a.m. and Fridays at 4:00 p.m.

Under the revised curriculum, the entering student has the choice of taking one of a list of courses using six study hours a week as a substitute for Engineering Drawing or Descriptive Geometry, which had previously been required during the first year of study at the Institute.

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Dean Harrison Speaks On Solar Energy And Its Uses

(Continued from page 1)

sible for the maintenance of all life on earth, is vastly inefficient, giving back after a few months or a million years only a few hundredths of the energy which strikes the leaf.

"To learn how to minimize our losses, we must examine the character of the radiation from the sun. We find it to consist of electromagnetic waves which range in length from the short ultraviolet to the long infrared, with about 60% having the spectral colors which our eyes can see, and with a maximum in the green. The distribution of photons among the various wavelengths found is characteristic of energy radiated by a surface heated to about 10,000° F. Most of the more energetic photons, carried in the short ultraviolet waves, have been absorbed by a layer of ozone high in the atmosphere before the energy reaches us, and some of the infrared rays are missing, absorbed by water vapor and other atmospheric constituents.

Energy Via Photosynthesis

"Except for a small five percent, which we take from water power, from work done by windmills, from nuclear energy released through fission or fusion, or in other minor ways, all of the energy we use has at some time been stored by photosynthesis in plants. This process, in which photons from sunlight are used in the plant cell to wrench carbon atoms out of some of the carbon dioxide molecules always present in air, so that they can be used to fabricate complex molecules of cellulose and sugar, is very inefficient.

"The energy pyramid in the sea, which consists of five steps or more before the energy finally gets into the fish that we eat, involves a loss of around four-fifths of the energy each time a small creature is digested by a larger one. Thus by the time the energy gets into the fish less than 1/50,000 of the original energy comes to our tables. It might pay us to eat higher up on this pyramid, so the greenhouses of the sea must not be overlooked.

Scientists Grow Algae

"To find new sources of proteins, fats, and carbohydrates, and in any case to shed light on the mechanism of plant growth, scientists in several laboratories are intensively studying the growth of unicellular algae. One known as *Chlorella*, which has many sub-species, has come in for particular attention.

"The Arthur D. Little Co. raised about 100 lbs. dry weight of *Chlorella*, and estimated that they could produce from 15 to 20 tons in a year on each acre of installation, with perhaps 50 tons ultimately possible with improvements, and 175 tons as the theoretical maximum. Sugar cane in Hawaii, with 40 tons, still holds the lead, and land plants to which a similar amount of loving but expensive care is devoted can probably store energy as efficiently as algae, though more of their product is likely to be fuel and less food.

Chlorella Costly

"The greatest damper to the enthusiasm of algae culturists is the high cost of a *Chlorella* outfit. This runs to about \$20,000 per acre, with a hundred-acre plant needed to produce algae at 25c per pound, still five times the cost of producing equally nourishing foods by conventional methods. Costs could be reduced by growing *Chlorella* in shallow open pools, as in Japan where 10-ton yields

are reported, but this introduces new problems of keeping the cultures free from contamination.

"We need fifty times as much energy stored in fuel as in food, so we may turn with relief from the complexities of photosynthesis to the simpler efforts of inventors to concentrate solar energy on boilers to run steam engines, to heat houses, and to operate refrigerators. A horsepower per square yard looks very attractive; let's put up a reflector ten yards on a side and concentrate a hundred horsepower to run a steam engine!

"The one practical utilization of mirror collectors at present is in India, where a scientific agency of the government has placed on the market, at \$14, a solar operated cook-stove. This has a mirror about one yard square which concentrates energy on a pressure cooker. The cook need watch the pot only every twenty minutes, to move the mirror so that the sun's image does not wander too far from the boiler. Though its first cost is high for the peasants who use it, it has value in saving for fertilizer the cow dung previously used for fuel.

Use Flat Plates

"Much closer to effectiveness than devices for concentrating sunlight are the flat plate collectors favored by the M.I.T. group led by H. C. Hottel. Sunlight is allowed to fall on blackened metal absorbers kept tilted at the best average angle, insulated from their surroundings to minimize heat loss, and covered with glass to reduce re-radiation. Under the collector is circulated a fluid, such as water, which absorbs the heat and carries it to the desired point of utilization. Such col-

lectors may be used to heat water for domestic use, for space heating, or even for running a steam engine.

"The type of solar energy conversion which to many appears the most promising for the long run, perhaps because we understand it least, is photochemical conversion, of which the photosynthesis found in plants is only one example.

Few Operate With Photons

"Of the dozen or more known photochemical reactions which can absorb energy and give it back on demand, only about seven operate with the small photons of sunlight. Many more can probably be found. One which shows promise, now being investigated by Professor Lawrence J. Heidt at M.I.T., involves cerium salts dissolved in water. Absorption of proper photons results in the separation of water molecules into hydrogen and oxygen. The hydrogen can later be burned to release energy on demand. Unfortunately, as in most such reactions, secondary reactions go in the opposite direction to the one desired, and release much of the energy prematurely.

"Though we conclude that solar energy installations for power production need be made much cheaper and more efficient before they can compete with present power plants, the outlook for certain special applications is more favorable.

"In desert areas and for men cast adrift in rafts at sea, solar distillation of water can be very important. A square yard of sunshine collector can give 5 quarts of fresh water a day. Many years ago a solar still was set up in the Andes to supply fresh water for mine ponies. Such stills are

at present useful only where fresh water cannot otherwise be obtained, however, for the cost of the still makes the water cost at least a hundred times that of water pumped from a well or river, which the sun has distilled in its own good time.

May Evaporate Seawater

"We may eventually use solar energy industrially to evaporate seawater, much more widely than for the age-old purpose of providing table salt. Evaporation of a cubic mile of such water, besides giving 150 million tons of table salt, would make available 300 thousand tons of bromine, valuable for anti-knock gasoline, and over 5 million tons of magnesium, to say nothing of valuable amounts of gold, silver and other elements.

"It is fair to ask what effect nuclear power will have on the importance of solar energy collection. As things look at present, these two sources of energy should supplement one another. Nuclear energy is of extremely high potential, capable of producing temperatures of millions of degrees. Solar energy is nuclear energy which has been degraded to 10,000° F., so that it is much lower in potential and less concentrated.

"Less than one ten-thousandth of the amount yearly spent on scientific research is devoted to solar energy problems. A few scientific philanthropists have recognized the importance of the field, leaders among these being Dr. Godfrey L. Cabot, who made substantial gifts to Harvard and M.I.T. for solar energy programs, and Dr. C. F. Kettering, who is giving much support to research on photosynthesis."

Rain Wipes Out Worcester Tech Soccer Encounter

The storm which hit New England last Saturday cancelled the soccer team's last game of the season against Worcester Polytech.

Defeating Brown and B.U. and losing to Amherst, Tufts, Harvard and Connecticut U., the booters wound up with a 2-4 record in the New England Intercollegiate Soccer League. In all probability the W.P.I. game would have given Tech its third league victory as Worcester went winless this season.

In non league games, the team beat Brandeis and was handed its worst defeat by R.P.I. Although their overall season's record was 3-5, the team played better than the record reveals. They were not shut out once, lost four games by one goal, one of them in overtime, and faced such top Northeastern teams as R.P.I. and Amherst.

Morales Leads Scorers

Leading the scorers was Rafael Morales with a total of six goals for the season. He was followed by Elquazabel and Paul Cianci.

The Freshmen had an overall record of 1-1-3. Although its record is worse than last year's frosh team, the freshmen coach feels that this year's team played better ball. This fact, coupled with the return of almost all of this year's varsity, should give Tech a very strong squad next fall.

The big bad wolf, he huffed and puffed
To blow the pigs' house down.
'Twas not a Lucky Strike he puffed,
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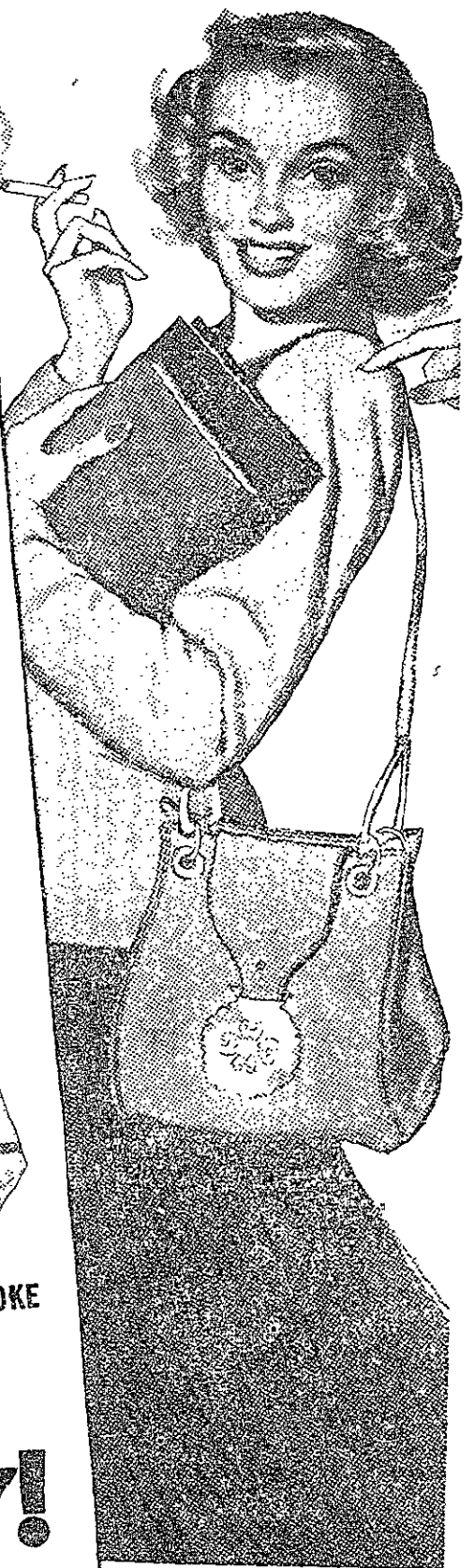


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Rudzinski, Nasr Lead Squashmen

The varsity squash team held a pre-season meeting last Thursday, November 5, to elect a captain for the coming season. Senior letterman Paul Rudzinski and Hossein Nasr were named as co-captains by last year's seven returning lettermen.

Coach Jack Summers has the Tech racquetmen practicing in earnest for coming matches with Dartmouth and Wesleyan early in December. The outlook for improving on last year's four won and five lost record is bright, and even a victory over Harvard might be in the offing.

Oarsmen Vie For Richards Trophy In Class Regatta

On Wednesday, November 11, crews from the varsity squad representing the three upper classes will compete on the Charles River in the annual Class Day Crew Race. For the third consecutive year the class crews will sweep down the mile course with the winning class gaining possession of the Richards Cup for the coming year. The Class Day Race has been an annual event since the beginning of rowing at M.I.T. in 1922, with the exception of the war years. It was resumed in 1951 when the Class of '53 captured the trophy. Last year the

Cup was won by the Class of '54 in a close race in which they outprinted the Class of '53. This year's race promises to be as heavily contested as many Intercollegiate races due to the fact that the class boats are well balanced in power and ability.

The Interclass Rowing Challenge Cup was presented in memory of George Henry Richards, oarsman at Cambridge University, by his brother Robert.

The race will be rowed upstream starting at the mile mark near the Sailing Pavilion and finishing at the Crew Boathouse. Starting time is set for 10:30 a.m. Somewhat anti-climatically Harvard will have their class race at 11:00 a.m.

Official starter for the race will be James B. McMillin, Varsity Crew Coach.

Beaver Sailors Take Third Place In Fowle Regatta

Sailing under ideal conditions on the Charles River Basin, last Saturday and Sunday, the Beaver varsity sailing team took down a third place in the New England Intercollegiate Team Sailing Championships, placing behind Harvard and Brown. The strong Harvard, winner of virtually every major event they have entered this fall, captured the championship and the Leonard M. Fowle trophy.

The Beavers sailed four boats in the regatta, competing against three of the five other teams entered in the race. In the first round the Techmen defeated Rhode Island 2 races to none, but in the next round they met Harvard and were defeated two to one. In the final round Harvard beat Brown three to two for the championship, Tech whipped Coast Guard two to nothing, and Rhode Island defeated Yale, 2-0, for fifth place. Sailing for the Engineers were the following teams, with the skipper listed first in each case: Alain de Berc '55 and Jorge Diena '54, Horatio Garcia '55 and Enrique Rocco '55, John Riegan '54 and Nick Newman '56, and

Scabbard And Blade Has Initiation of Thirteen Jrs.

(Continued from page 1)

the school year 1904-05. The major event of the year for the organization is the Military Ball which will take place on March 19.

The following juniors were initiated: James W. Astrue, Gary Brooks, Reginald Griffith, Johan G. Hedberg, Joseph A. Kissinger, Rodney W. Logan, William M. Randolph 3rd, Joseph R. Saliba, David D. Snider, Fred Thellman Jr., Joseph C. Vacca, Reverdy E. Wright, A. Lee Zuker.

John Wing '55 and James L. Simmons '55.

The races were sailed under virtually ideal weather conditions, with a wind of six to ten miles per hour blowing most of the day. The races continued until late Sunday afternoon, and the last few races were held in the dusk. The final race, as a matter of interest, was led home by a motorboat showing a lantern for the boats to follow.

This meet brings the fall sailing season on the Charles River to a close. The Beavers enjoyed a reasonably good season, despite their inability to defeat neighboring Harvard. The team members are now looking forward to a successful spring season.

Heavy Schedule Faces Engineer Swimming Squad

The 1953-54 edition of M.I.T.'s varsity swim squad will plunge into action on December 5 at Amherst. Coach Gordon Smith has high hopes for this year's mermen, who have been bolstered by the addition of several promising sophomores.

Returning lettermen, headed by Captain Don Bailey '54, include freestylers Tom Hamilton '54 and Hal Cohen '54, breaststroker Frank Buck '55, and divers Jim Dwyer '54 and Manny Tidor '54. Dwyer had a fine dual meet season last year, taking eight first places and two seconds, while Tidor reached his peak by taking a fifth place medal in the New England Championships. Diving Coach Roy Merritt expects fine scoring by these two aquatic acrobats.

Sophomores Bolster Team

Expected to be outstanding additions to the varsity are several of last year's freshman squad, which enjoyed a six and four record. Freestylers Bob Jantzen, Quinn Solem, Joe Hamlet, John Reynders, Bob Sullivan and John Roberts, will give Tech more depth in the sprints, although the versatile Jantzen may be called on for backstroke service as well. Ken Whipple and Fred White will give Buck some competition in the breaststroke, and Dick Langendorf should provide a needed lift in the backstroke events.

The current schedule includes Amherst, Connecticut, Wesleyan, Harvard, Coast Guard, Holy Cross, Tufts, Union, R.P.I., Brown, Worcester Tech and Boston University. Coach Smith hopes for a decided improvement in his natator's won-lost record over that of recent aggregations.

Beaver Rugbyites Drop NY, 14-3, As Whillier Stars

Last Saturday, October 31, the Beaver rugby squad erupted in the second half to drop the New York Rugby Club, 14-3, on the New Yorkers' home grounds.

New York broke the ice early in the first half, scoring a try but failing to convert. Shortly afterward the Beavers bounced back into contention as Tech's Tom Hoffman fell on the ball in the New York end zone for another try. His conversion attempt was no good.

Later in the first half, Hoffman racked up another three points for Tech by making a penalty kick. At the halfway mark of the contest the score stood at 6-3 in favor of the Beavers.

Highlight of Contest

The highlight of the game was contributed early in the second half by fullback Austin Whillier, who made a running drop kick from thirty yards out for another Tech score.

Toward the end of the contest, John Gam chalked up another try for the Beavers with a thirty-yard run. Tom Hoffman made the conversion for a 14-3 margin in favor of Tech.

During the remainder of the game, there was no score recorded by either squad, and the score was still at 14-3 at the end.

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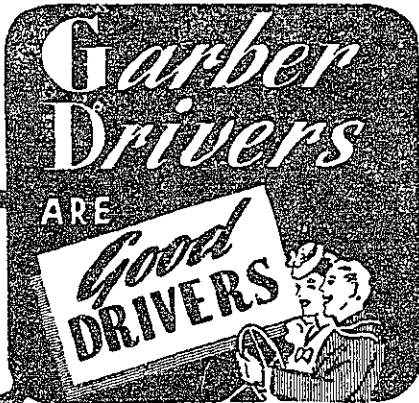
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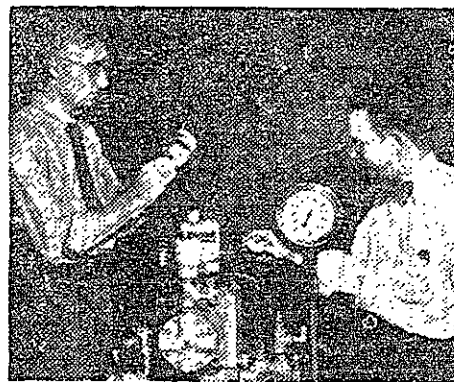
Making new products in large amounts, devising new processes, and improving old ones—such problems are the job of Design and Development. An example was the development of a large-scale process for making "Orlon" acrylic fiber starting from small laboratory samples of polyacrylonitrile.

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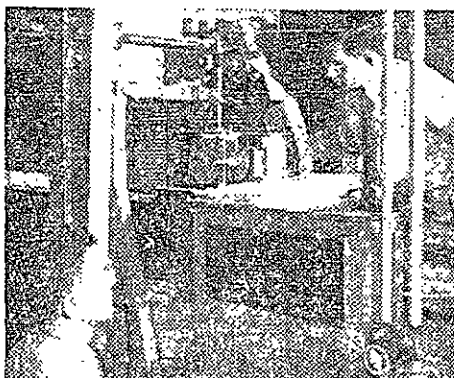
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Albert Rand, B.S.M.E., M.I.T. '50 (right) develops controls for chemical equipment.



Carl Hellman, B.S.Ch.E., Syracuse '50, and J. M. McKelvey, Ph.D.Ch.E., Washington '50, search for new ways to coat plastic on wire.

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Peculiar Habits Of College Drinkers Studied By Yale

A group of Yale's physical and social scientists, working in a reconstructed mansion at the edge of the University's campus is making a pioneer study of alcoholism in the United States.

The findings of the research program so far have challenged many of the pet theories about alcoholism and have thrown new light on American drinking habits.

The first of a series of reports from the Center of Alcohol Studies is the widely discussed "Drinking In College," recently published by the Yale University Press. This report based on a study of 16,000 men and women students in 27 colleges and universities throughout the United States, is the first study ever made of the drinking habits of college students.

Among the conclusions reached in the book is the fact that the drinking patterns of most students are formed before they enter college.

The survey of college drinking is one of many being made at the Yale Alcohol Center.

Perhaps the most important of these projects is a study of the bodily changes induced by small amounts of alcohol consumed by normal people. The purpose of this study, now being organized, is to find an explanation of why people drink.

"We're hoping to learn the basic facts about the ordinary drinker, and for the purpose of this project, we're interested in the extremes," said Seldon D. Bacon, director of the project. "We want to learn the effects on the body and emotions of a small amount of alcohol, in the hope that this knowledge will help us discover why people drink."

"Drinking In College," based on a six-year study, is the first major re-

The Lounger

(Continued from page 2)

stormed the scene. After herding the students in the Yard, the fearless officers locked the gates, and three of their number (the bravest of the lot) were assigned to guard the statue of the college's founder. It should be explained in passing, that the hallored portals were originally constructed to keep similar disturbing influences outside.

port of the Alcohol Center. Apart from what the book tells about college drinking in America, the study is important because it establishes the foundation for a long-range study of a whole group of people containing a small proportion certain to become alcoholics.

"We at the Alcohol Center have long felt a need to study such a group," said Mr. Bacon. "We decided on college students because they're relatively less inhibited about answering questionnaires than adults, and also because they were available in groups on the campus."

"Also," he said, "we knew college students were old enough so we were sure a large number would have started drinking, but not so long ago that they would have forgotten when and under what circumstances."

"Until recently," Mr. Bacon explained, "all data on drinking habits were concerned with abnormal drinking and its relationship to divorce, crime and the like. We felt it essential to gain a picture of the normal drinking customs of the American people."

"We studied the drinking habits of ethnic groups. But we also wanted to

study a particular age group which we'd be able to follow for the next 25 or 30 years. As a result, we'll be able to trace the influences of marriage, of the change in, economic status, of having children, and of changing attitudes on the drinking habits of these college students."

Mr. Bacon said that it will be possible to conduct follow-up studies of students interviewed in this college-age group because 77 per cent of them voluntarily gave their names for future references.

"Each questionnaire filled out by the student," he explained, had a number on it, although there was no place on it for the respondent's name. We inserted a slip into each questionnaire with the number on it, asking the student if he would sign his name to the code number so we could go back in later years to check. Over 12,000 of the students — 76 per cent of the men and 81 per cent of the women — signed their code number slip."

Public Speaking Course

(Continued from page 3)

The new course, listed as E37 in the catalogue, deals with the principles of expression and argumentation in business and everyday life. Practice is also given in the use of the voice, including elements of quality, pitch, force and time in order to secure better authority, resonance, and confidence. Specific speech situations are also examined. Thus it is designed to give as complete a study in self-expression as possible in one semester.

Actually this is not the first course of this type at the Institute, as Public Speaking is a required part of the City Planning course. The innovation is in the fact that Freshmen are allowed to take it this year as an elective. Most of those taking the course are doing so in addition to another elective course. This means that they are taking fifty-four hours per week as opposed to the usual forty-eight.

The new courses offered this year represent an effort to increase the latitude of the Freshman year. It is expected that the incoming student will be able to make a more specific choice of his subjects than before and better prepare himself for the field he hopes to enter.



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