

TUITION UP IN '60 AS COSTS RISE

Tuition will be increased to \$1500 per year beginning with the summer of 1960. Announcement of the \$200 raise was made Tuesday afternoon at a meeting of Institute Committee and other student leaders in the President's office.

Cited as reasons for the rise, coming just two years after the last increase in student costs, were the rising costs of education, particularly faculty salaries, and the general inflationary trend of the economy.

Letters from Dr. Stratton explaining the increase have been sent out and should reach students today.

Dr. Stratton pointed out that the last tuition hike, in the fall of 1958, was considered unrealistic in terms of meeting costs, and even with the new figure the Institute will barely be keeping pace with expenses.

He stated that the Corporation, unwilling to inflict future

costs on the present student body with large jumps, will probably be forced to demand increases comparable to the present one every few years while the inflationary period continues.

This fits recent tuition history statistics perfectly; since 1956 tuition has risen \$200 every two years. By its new advancement, MIT will achieve a dubiously enviable position as the most expensive large undergraduate school in the country.

Installment Plan

As an aid to financially pressed students, tuition may be paid on an installment plan beginning next fall. A down payment of \$1000 will be required, paid at once or spread through the academic year, with the balance paid semi-annually over ten years.

Arrangements for the plan have been made with the First National Bank of Boston, with charges of only 5% instead of

the usual 10-12% for installment buying. No qualifications as to academic standing or financial means are made, although foreign students, students on academic probation, and those participating in the Technology Loan Fund are ineligible.

Stratton noted that the installment plan is a basic part of American procedure and attitudes, and would be applied for the first time in the academic world by MIT to permit the student to invest in his own future. He also stressed the experimental nature of this plan, saying that its future continuance and expansion would depend on its acceptance by the students.

Student Committee

In his announcement to the students, the president emphasized the role of the Student Committee on Rising Cost of Ed-

(Continued on page 2)

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Varsity Netmen Stop Trinity 6-3; N. E. Championships Here Today

by G. H. Kaiz '60

The varsity tennis squad neared the end of their 1959 season by downing a strong, previously undefeated Trinity team 6-3, here on Monday. The final Beaver match was scheduled at Dartmouth and today the New England Championships begin at MIT.

The team made a brilliant recovery from the 2-8 record of last year, as the win over Trinity pushed the spring tally to 10-3.

Raul Karman '61, playing the number one singles position, got things off to a brisk start as he took his duel in two sets, 6-1, 6-2. Jeff Winicour '59 followed up in a well played and exacting battle to edge out his opponent 7-5, 1-6, 9-7. Jack Klapper '61, the third man, took his match in two sets, 6-1, 6-1.

The best encounter of the afternoon saw Bob Kenefick '59 drop his first set and then fight back to gain the victory as he captured the third set 6-1. Bob Hodges '60 and Dave Aaker '60 surrendered their matches in the remaining singles.

The doubles saw the strong Tech duo of Karman and Klapper walk

off with their match 6-4, and 9-7 after some tough competition. Aaker and Hodges gave the racquetmen their sixth win after Winicour and Kenefick dropped a well played round.

Yale Favored

Starting today and continuing through Sunday, MIT will host the New England Intercollegiate Championships on the DuPont courts. The Beaver doubles team of Karman and Klapper should battle their way past the other contenders in the doubles race to take one of the top spots. Yale junior Don Dell will be defending the singles title and his Eli squad the team crown; both are favored to repeat. Threats to Dell's championship will be Allen Roberts of Wesleyan, Tom Richardson of Amherst, Ned Weld of Harvard and Karman. Karman has played and lost to Weld, Richardson and Roberts, all in three sets, but still has a chance to place in the finals.

Inertial Guidance System For Titan Constructed Here

The inertial guidance system that will pinpoint targets for later models of the nation's newest intercontinental ballistic missile — the Titan — was devised by the Massachusetts Institute of Technology's Instrumentation Laboratory.

This was disclosed following an announcement that the AC Spark Plug Division of General Motors Corporation has been awarded a contract for production of the system from the development model constructed at MIT. MIT and AC Spark Plug will cooperate on further development and test of the production prototypes for use in future units of the long-range missile.

MIT's Instrumentation Laboratory, headed by Dr. Charles S. Draper, the "father of inertial guidance," has pioneered development of this system of navigation, which cannot be jammed by enemy counter-measures, is extremely accurate and functions without external reference of any kind. Dr. Draper is also head of the Department of Aeronautics and Astronautics at MIT.

The small, intricately made package of gyroscopes, accelerometers and computing devices is capable of guiding a Titan missile to a target at intercontinental range. It is considered the most advanced inertial guidance system yet developed. Exact performance details are highly classified.

In 1953, a secret flight from the Instrumentation Laboratory's test flight facility to Los Angeles was made in a B-29 using the SPIRE inertial guidance system. The plane was navigated by the system during the entire cross country flight until it arrived within easy communication range of its destination. This dramatic proof of the efficiency of inertial guidance was kept secret until 1957, when the details were disclosed by Dr. Draper in a press conference at MIT.

59 Distinguished with the title of MIT Professor

Promotion of 59 members of the faculty was announced this week by Dr. Julius A. Stratton, President of the Massachusetts Institute of Technology. The following were promoted to professor: Martin A. Abkowitz, Lexington, naval architecture; Morris A. Adelman, Newton, and Paul Pigors, Framingham, economics; Richard B. Adler, Concord, and Samuel J. Mason, Newton, electrical engineering; Norman C. Dahl, Lexington, Frank A. McClintock, Concord, and Brandon G. Rightmire, Belmont, mechanical engineering; Samuel A. Goldblith, Melrose, food technology; David N. Hume, Newton Lower Falls, and Lockhart B. Rogers, Belmont, chemistry; Howard W. Johnson, Weston, industrial management; T. William Lambe, Concord, civil engineering; Lloyd Rodwin, Cambridge, city planning; Charles N. Satterfield, South Lincoln, chemical engineering; Isadore M. Singer, Newtonville, mathematics; Patrick D. Wall, Watertown, biology.

The following were promoted to associate professor: Eugene Bell, Dedham, biology; Edward H. Bowman, Concord, and Edwin Kuh, Wellesley, industrial management; Nathan H. Cook, Concord; George N. Hatsopoulos, Lexington, and Shih-Ying Lee, South Lincoln, mechanical engineering; Harald A. Enge, Winchester, and Louis S. Osborne, Lexington, physics; Carl W. Garland, Cambridge, and Herbert O. House, Belmont, chemistry; Louis N. Howard, Lexington, and Hartley Rogers, Jr., Cambridge, mathematics; Vernon M. Ingram, West Medford, biochemistry; Arthur L. Loeb, Cambridge; William M. Siebert, Concord; Alfred K. Susskind, Concord, and Herbert H. Woodson, Waltham, electrical engineering; James W. Mar, Lincoln, and Theodore H. Pian, Cambridge, aeronautics and astronautics; Charles L. Miller, Lexington, and Robert V. Whitman, Lexington, civil engineering; Frederick Sanders, Marblehead, meteorology; Abraham J. Siegel, Framingham, and Robert C. Wood, South Lincoln, economics; Irving Singer, Boston; Gregory Tucker, Cambridge, and Robert S. Woodbury, Needham, humanities.

The following were promoted to assistant professor: Abraham Bers, Cambridge, Jack B. Dennis, Cambridge, and Thomas G. Stockham, Jr., Chestnut Hill, electrical engineering; Klaus Biemann, Cambridge; James W. Ross, Jr., Newton Centre, and Dietmar Seyferth, Arlington, chemistry; Kenneth M. Hoffman, Brookline, mathematics; Gordon M. Jensen, West Newton; Harold C. Kirker, Cambridge; Leonard M. Marsak, Boston, and Richard L. Schoenwald, Cambridge, humanities; Edward S. Klima, Boston, and Alexander L. Lipson, Cambridge, modern languages; Perry L. McCarthy, Cambridge, civil engineering; William G. Moffatt, Braintree, metallurgy.

Compton Awards Presented During Annual Convocation

Highlighting the annual awards convocation held in the Great Court on Wednesday was the presentation of the Compton Awards by Mrs. Karl Taylor Compton, wife of the late president of MIT.

Receiving the four individual awards of silver tea services were: William D. Putt, '59, Gustave M. Solomons, Jr., '60, Charles O. Staples, '59 and Gerald J. Stephenson, Jr., '59. The organization awards of \$500 cash were presented to: The Alpha Chi Chapter of Alpha Phi Omega, The International Program Committee, and the Public Relations Committee. David Stalein received the award for APO, Jamie DeSola, '60, for IPC and Sheila Evans, '60, for PRC.

The Compton Awards are given annually for outstanding contributions in promoting high standards of achievement and good citizenship within the MIT community and are donated by the Boston Stein Club.

Athletic Awards

Presenting the athletic awards was Richard Kaplan, '60, President of the Athletic Association. The Clifford Award which goes to the senior who has made the most meaningful contribution to MIT athletics went this year to Paul H. Ekberg, '59, former president of the AA.

The Gold Key Awards for Major Administrative Performance went to the outgoing members of the AA Executive Committee: Mr. Ekberg; Michael A. Drew, '59, Varsity VP, Leroy A. Cooper, '59, T-Club President; George S. Stivers, '60, Intermural VP and Richard J. Northrup, '60, Recorder.

The Silver Key Award for Distinction in Minor Administrative posts went to William D. Putt, '59, Intercollegiate Swimming Manager; James Y. Wishart, '59, financial manager of the AA; Paul H. Gaither, '60, Squash Manager and Joseph A. Verderber, '60, Publicity Manager of the AA. Administrative certificates went to Bard Glenn GS Assistant to the Ski Coach; Stephen Loreh, '59, Asst. Manager of the Swimming Team; Charles A. Negrin, '60, Soccer Manager and Theodore H. Ansbacher, '60, Ski Team Manager.

The Award for Best Manager of the Year was presented by new Varsity VP, Ralph Buncher, '60, to John C. Cheney, Jr., '60, Crew Manager. Phil Robinson, '61, made the annual presentation of the Q Club award for the best Freshman athlete to David H. Koch, '62.

The Beaver Key Trophy for the living group with the greatest participation in intercollegiate athletics was listed on the programs as being awarded to Sigma Nu, but Kaplan had to admit that this decision was challenged and that the cup will be awarded later when the winner is decided.

Scholastic Awards

The Phi Lambda Upsilon award to a freshman for excellence in chemistry. (Continued on page 4)

Chief Psychiatrist Appointment Made

Appointment of Dr. Benson Rowell Snyder as psychiatrist-in-chief of the Medical Department at the Massachusetts Institute of Technology was announced by Dr. James M. Faulkner, Medical Director.

Dr. Snyder, 36, is an associate psychiatrist on the staff of Beth Israel Hospital and maintains an office in Boston. He will join the MIT staff on July 1.

During the Korean War Dr. Snyder served as a captain in the United States Air Force, and was stationed at Westover Air Force Base as chief psychiatrist. Since 1953, he has been in charge of the psychiatric program at Wellesley College, and has also served as an assistant psychiatrist at Harvard.

Cardinal Cushing Reception Monday

His Eminence Richard Cardinal Cushing, Archbishop of Boston, will be at MIT this Monday for a reception with Dr. Julius Stratton. Under the auspices of the Technology Catholic Club, the reception will be in the Emma Rogers Room from 4:30 until 5:30.

Cardinal Cushing was at MIT for a similar reception last year when he was Archbishop. Since that time, he has been elevated to Cardinal.

Invitations to the reception have been sent out, but will not be required at the door.



The practical power of prayer will be the topic of a free lecture on Christian Science to be given here on Monday by J. Hamilton Lewis of Concord, N.H.

He will speak in the Little Theatre of Kresge at 5:15 through the auspices of Christian Science Organization at MIT. His subject will be "How Christian Science Brings Security and Peace."

Quadrangle Club Elects Freshmen

Quadrangle Club, the Sophomore Honorary Society, elected fifteen freshmen to make up the initial group for next year's organization.

Q Club officials refused to release the names of the men elected. The fifteen freshmen will elect ten more of their classmates within the next several weeks. At that time the names of the full complement of the new Club will be released to the press and student body.

The idea of not announcing the new members was new last year. Its purpose is to eliminate the "differential" in the membership which results from the two elections. The present Q Club feels that there are many men whom they passed over, on whom the freshmen group will be better qualified to make decisions.

Dames "Graduate" At Annual Exercise of Diploma Awards

The wives of members of the June graduating class received their own diplomas this week as the MIT Dames held their annual "graduation" exercises in the Faculty Club, attended by Mrs. Julius A. Stratton, honorary president of the Dames.

The Dames Diploma, awarded to 75 members by Dean Fassett bears the citation: "Proven mistress of amiability, doctor of patient and potent help, through whose conscientious faith and endeavor, her husband's advancement in learning at the Massachusetts Institute of Technology has been fostered, furthered and facilitated."

A special award, given for the first time this year, the "Mrs. James A. Jack Award" was presented to Mrs. Elizabeth Purple of Belmont for her outstanding contribution to the Dames program and service projects. Mrs. Purple's husband is a graduate student in the department of Civil Engineering. The award, which will be presented annually after this year is named for the Dames' founder.

The Dames' retiring president, Mrs. Iby V. Heller, announced the formation of an MIT Dames Alumnae Society at the graduation dinner. With a nucleus composed of former members of the Dames, it will be open to all wives of MIT alumni and will consist of autonomous local clubs all over the world. It will work closely with the MIT Alumni Association particularly in establishing local groups where Dames alumnae are now living.

Mrs. Heller, who first suggested the idea, explained that the Alumnae Society will be a means for fostering the same friendly spirit that Dames enjoy while their husbands are studying at MIT.