Prof. Edgerton to Receive Scroll Named Outstanding NE Engineer

Tuesday, February 24, Dr. Harold E. Edgerton, professor of Electrical Engineering and Director of the Instrumentation Laboratory at MIT, will be on hand to answer questions on Saturday afternoon. The Edgerton-MIT Program will serve as Station WTB's 1960 Inaugural Associate Board meeting on the development of the stroboscope and many other instruments with applications in vision research.

At a combined Managing Board meeting presented by the National Engineering Societies of New England, Prof. Edgerton, who has made principal contributions to the study of bullets, radio astronomy, and nuclear research, will present a paper on his chosen topic. No credit will be given for this work, thus the time spent on it will be entirely up to the student. It is hoped that the program will encourage "that real sense of achievement which so often leads to outstanding accomplishment," said Mr. P. S. Eagleson, chairman of the program committee.

WTBS Selects Freshmen Given Opportunity for Individual Work in Science Fields

Freshmen have been afforded the opportunity to work closely with experienced men in the field of science as part of their own training. A considerable number of faculty members have volunteered their time and have suggested a field in which they are interested in supervising independent investigation by freshmen. Due to space limitations and other reasons, many faculty members are interested in supervising one or two freshmen. Arrangements will be made to provide them with a free time, first selected to the program. The program is experimental, and will probably be enlarged if well received by the students. It is open to all freshmen of their junior years as has been the case in the past.

Tech Industrial Management Men Elect Their Officers

Dr. James R. Killian, Jr., of Brookline, Mass., appointed by President Conant as chairman of the 1960 Engineer's Week, will speak at 7:30 in Building 52 on "Transformation from Graduate to Professional." The theme of the event, as outlined by Dr. Killian, is "the importance of professional ethics in the development of the individual as a professional man." The program was initiated by Sig Upsilon, the national fraternity of the Engineering Societies of New England, and sponsored by the Instrumentation Laboratory at MIT. The program will encourage "that real sense of achievement which so often leads to outstanding accomplishment," said Mr. P. S. Eagleson, chairman of the program committee.

UAP Hopefuls Elected Tuesday, Candidates Get WTBS Interview

The student will be allowed a great deal of freedom in working within his chosen topic. No credit will be given for this work, thus the time spent on it will be entirely up to the student. It is hoped that the program will encourage "that real sense of achievement which so often leads to outstanding accomplishment," said Mr. P. S. Eagleson, chairman of the program committee.

Dean Fassett, who was the featured speaker of the event, spoke with the general theme as his basis, "deans of the future," but it is the hope of the committee to have the students participate more in the preparation for the Open House.
I have taken this significant step. We hope that the experiment will program and will devote sufficient time and interest to it. hands of those men with whom the freshman will be working studies and his own value as a part of scientific advance students would have virtually free reign to put their imag born with the 1957 Arthur D. Little lecture by Dr. Edwin body in the activities of a minority of puffed up candidates a personal deed, a selfish or illusive decision, carrying very for the success of the enterprises to have the approval of unfortunate we have been talking about Freshmen orientation. The problem is the fact that the environment of the MIT student maximum opportunity—consistent with MIT's educational 2) The fourth paragraph of the cut version of the student government. It is necessary. GEORGE WEIN needed increase Proof of college enrollment which is especially designed
Lecturer General Sir John Bagot Glubb

Telescopes Middle East

By Cy Todd

Recognized to be the world's foremost expert on the Middle East, General Sir John Bagot Glubb was lecturing "Saturday nights Live" program inKruege Auditorium. The General chose to divide his talk into three parts: the importance of the Middle East, its history, and the Middle East situation today. Beginning

with the importance of the Middle East as part of a vital trade route between East and West, General Glubb stressed the archeological position of Britain, a small, overpopulated, poorly situated island. Shrew trade in the only means of her sustenance, the Middle East is a serious matter to Britain.

Also brought up under this first topic was the historically significant position of the Middle East. General Glubb emphasized that earlier the power in control of the Middle East could effectively divide the world in two, today's West from the East by simply blocking the trade routes. Today, the vast oil fields of Arabia are vitally important to the West. Again, any power in control of the Middle East need only cut access to this oil to paralyze the West.

General Glubb recalled that a small force of British stationed in Egypt during 1841 fought the Germans and Italians in North Africa, Greece, Albania, and Jordan and made contact with the Russians in Iraq.

Later, among the British, recognized they had to be friendly with the ruling power to insure easy passage through the Suez Canal. Until 1916, this concerned the Turks as the Middle East was part of the Ottoman Empire. When the Turks allied with the Germans in WWI, the British associated with the Arabs outside Turkey to drive the Turks and unite the Middle East as one great Arab state.

Although an agreement was reached and the Turks drove out, it was only until WWII that the Arabs reached any degree of independence and then only as many states. On top of this, the Balfour Declaration of 1917 concerning the establishment of Palestine was carried out by the British and led to the final statehood of Israel in 1948. All this combined as a whole thing they were betrayed. They believed the British would be developing all this for some fuller motive when actually, the General stated, "laid out, had only made a "frightful muddle of the whole business."
The General continued the lecture with an evaluation of recent events. This included Nasser's rise to power, Egypt's agreements with Stalin to receive arms, and revolutions in the northern Arab states.

Information given about the general's General observed, was the replacement of older people with younger people, "with a younger man of about the forty. The General feels this is sympathetic of the younger European-educated people resulting against the older people of the classical Middle Eastern Jews. Certainly there is a larger number of educated people in these countries today, people that have been exposed to the Western cultures and want to emulate it.

In this revelation of the young people of the Middle East, General Glubb feels fault with the foreign policies of the United States. Although the United States feels these countries are too ready to make agreements with the existing governments and do not consider the future young people growing up with respect to these governments and agreements. As far outside influences on the Middle East, the General feels especially significant the ability of one government to appeal to the mass of another nation's people, today's modern means of communication. This pressure has allowed Russia to obtain a foothold in the Middle East and, consequently cause much disarray between the Middle East and the West.

The General had several suggestions to gain the favor of the Middle Eastern powers or help peaceful relations at least. Firstly, the General states that a pronounced, strong set of conditions toward the Arabs would earn their

unyielding loyalty for they are a proud people. Secondly, the US should avoid "playing favorites" among the Arab countries for more time we have been aware of setting of the Eastern against another. Thirdly, it should not disregard the nationalistic spirit in any of these countries. Do so would be "hypothetical" for we were conceived in nationalism ourselves. Lastly, it should endeavor to produce a more friendly and more worthwhile picture of the future between ourselves and the Arab. Thus, the General finished, could enable us to join together in a really worthy cause.

General Glubb served in the British Army for 32 years. In 1949, he resigned his commission to become an administrative inspector for the Iraqi government from 1959 to 1960, served as the commander in chief of the Arab Legion. He retired in 1969 and was knighted by the Queen of England for his services.

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FRIDAY, FEBRUARY 20, 1959

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Interviews to be held on Wednesday, March 4

OLIN MATHIESON 460 PARK AVE., NEW YORK 22, N. Y.
Dr. Sheehan Will Be Honored For Work On Penicillin And Peptides

By Dave Nicols

One of the major contributions to the field of organic chemistry and medicinal research was made two years ago, when Dr. John C. Sheehan, a professor of organic chemistry, and his associates were successful in producing a method for synthesizing penicillin. Prior to this time, many scientists believed the synthesis of penicillin to be impossible as forming an angle. Although the penicillin molecule is not complex (in fact it is similar to cocaine and succin, both of which have been artificially produced), it is unstable and will break down if the usual methods of the organic chemistry laboratory are used.

During World War II, the American and British governments initiated a crash program to determine the structure of the penicillin molecule and to synthesize it for military use. Although a thousand chemists were involved at a cost of $20 million, the program was only partially successful. The structure method for its synthesis was not produced.

In 1946, aided by graduate and post-doctorate students, Dr. Sheehan undertook the problem of synthesizing penicillin. He felt that it was a challenge which would benefit both scientific and humanitarian endeavors. In 1947, this goal was attained when two varieties of penicillin were produced. New methods and techniques had to be evolved, including enzymes which acted at or below room temperature. The last ten steps were the most critical, especially the final one, which involved the closing of an additional bond to form a member ring. Penicillin V, one of the most important varieties of this antibiotic since it is administered orally, was produced in this manner. Although synthetic penicillin will probably never be able to replace completely that produced by fermentation, its future lies with the new variations which cannot be produced by the regular fermentation process.

Dr. Sheehan first became interested in the field of organic chemistry when he took a course in it while he was an undergraduate at Battle Creek College. To him "it seemed to have the right combination of art and exactness." Then he went on to study at the graduate school of the University of Michigan, where he received his B.S., and Ph.D. He remained there as a research associate until 1941, when he joined the staff of the Merck Laboratory. In 1946, after five years in industry, Dr. Sheehan joined the MIT chemistry department. He, his wife, and children now live in the suburbs of Lexington.

Although Dr. Sheehan and his associates will continue in their study of penicillin, they are now investigating the structure of other antibiotics. Two substances which have recently been under investigation are enamine, a complex peptide, and tetra cyclic antibiotic, which is derived from organisms found in soil. These antibiotics are similar in type, except for the number of amino acids involved. Instead of using the usual laboratory methods which require high temperatures, aqueous solutions, and corrosive reagents, Dr. Sheehan devised methods involving aqueous solutions, moderate temperatures, and neutral reagents. In this way, the conditions of the natural life processes are more closely approached. Thus if peptides can be synthesized in this way, scientists will have a better knowledge of the more complex protein molecules.

In April, when the American Chemical Society meets in Boston, Dr. Sheehan will be honored for his work on penicillin and peptides. When he receives the $3,000 A.C.S. Award for Creative Work in Organic Chemistry.
IM Hockey Season Nears End

Graduate House Tops Litl Finalists

Graduate House, Phi Beta Epsilon, of the Fiji's Chuck Campbell '61, with assists on the other two.

Nu overpower Delta Tau Delta 161 shut out the Phi Gains 2-0. The loni victorious over Phi Delta Theta sqhutting out their opponents, to scored three goals and was credited the count 2-1.

Monday evening, Sigma Nu, with the S & H team in the two periods each two minutes long. A-11 was divided into eight men each men onl or each foul committed in the last four periods the teams would be awarded an extra man on the floor for that frac- tional second penalty. Each fouled player would be kept out of the game unfor- tunately.

The following evening, Theta Delta Chi shot out Barton House 4-0, as Allen Starr '59 piled up the attack with two tallies. Blaming out the quarter- finals was a contest between last two tallies. Rounding out the quar- terfinals action began last eve- ning. The experienced ones have been train- ed Solid Club: C. M. Gray (Humanities), Killian refereed in his Osage Chief- heekeel their winning streak S

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The varisty squash again will meet at 1:15.

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