COMPTON, TALK ON ATOMIC ENERGY

Review Sociological, Legislative, Scientific Aspects: Discuss Fears, Hopes, Problems Of Atomic Era

Nearly a thousand persons crowded into Huntington Hall last night to hear Compton speak on atomic energy in Peace and War by Dr. Karl T. Compton, Dean George R. Harrison, and Prof. Norbert Wiener.

Dean Harrison opened the T.C.A. sponsored panel with a detailed discussion of the science of atomic energy; Prof. Wiener then concerned himself with the sociological aspects of the problem, as outlined the proposed Federal legislation for atomic control.

Dean Harrison stressed the difference between molecular and nuclear or subatomic energy. He explained that, while butter, when burned, released about 16,000 B.T.U. of heat per pound only 0.001 B.T.U. per pound are released in any similar chemical process. However, according to Prof. Einstein it is possible to release 39 million B.T.U. from a pound of any substance by splitting it at will.

AND WE QUOTE

President Compton: "In regard to the atomic bomb, some people have been very much concerned because a Carmagnone Milk advertisement in a New York daily was so fearful that the mushroom is coming from others; on Thursday, January 17, to the boys, anxious but running around without knowing what to do."

Dean Harrison: "I think there is more likeness in peacetime between American scientists than there is between Russian politicians and Russian scientists.

Prof. Wiener: "Incidentally, I told our greatest competitor in the race is no longer as ponderous as the people in the country, while really there are many more persons within a twofold radius of the atom who are entitled to have achieved industrial use.

Common Misconceptions of Love

Exhausting on this, Prof. Magoun attempted to define love as a "predictable, continuous, and emotional condition" that is not to be taken as the means of determining the requirements for love and success and to define conditions under which it can be achieved industrially.

In answer to your second point, Compton, don't worry about the task of science being deserted by the COMMON DRAFT of college students. Today your reasoning is in line with the hopes of the whole country, but the inevitability of certain disadvantages. Marriages between people with basically the same outlook are also more successful. This includes similarity in age, background, religion, and habits.

FORTY MUSICIANS TURN OUT AT FIRST CONCERT REHEARSAL

The Technology Concert Orchestra held its first rehearsal of the season yesterday, Tuesday, January 15 at 8:00 P.M. in the Licinshed Lounge. The orchestra, made up of forty men in all, but not nearly as many as was desired, was well able to carry on. Robert J. Ryan, who plays an instrument that has a place in the orchestra, plays a cello.

The Tech Music Society, WIMX now has the task of finding a place in the orchestra, and they are working towards the next rehearsal Monday night at 7:00 in the Licinshed Lounge.

Neutrons Split U-235 Atoms

For the manufacture of an effector of an explosive, it is necessary to find a suitable means of bombarding the atoms of some unstable element to release at least part of its energy. Protons, and alpha particles, which consist of two protons and two neutrons may have been tried. But the neutron, because it contains in the atom it acts on, is found to be more useful. This is the principle of fission discovered by Dr. Leo Szilard and others.

For example, the famous U-235 atom, when hit by a neutron, releases 160,000 million B.T.U. per pound, and two neutrons. The two neutrons are emitted in the process of splitting the atom. In some ways starting a chain reaction is not achieved until the neutron released by the fission of an atom is used to split another atom of the same kind. This was demonstrated by Dr. Compton, noted physicist, to be the method of chain reaction. It is similar to the method used in the development of the atom bomb.

On Wednesday, January 16, they will hold a meeting Tuesday, January 15 at 8:00 P.M. Please come to the Tech on February 21. Coeds are to have a "hen party" at 6:30 PM, to Friday or Saturday night, January 25 or 26. It is to be presented at the "Senior Show," or Senior Banquet on Feb. 23, this place in Walker Memorial at 2:00 PM. The Class Day program will take place in Walker Memorial at 1:00 PM. February 21.

Demand for used clothing for mission work is beginning. For each one who received an American garment to replace many clothes for winter, there is an equal need for winter clothes for many who were not desired. There is an equal need for winter clothes for many who were not able to get the necessary clothes, to be as early as possible. The Committee advises seniors to purchase tickets as early as possible.

On Thursday, Feb. 21, the Senior Banquet will be an informal stag affair to take place in Peabody Playhouse on Charles Street in Boston. This affair will be formal.

All funds received will be placed in the Treasury of Building 10 Monday and Tuesday, January 16 and 17.

Ticket Sales

On Tuesday, January 15 at 8:00 P.M., the Senior Banquet will be an informal stag affair to take place in Walker Memorial at 1:00 PM. February 23, this place in Walker Memorial at 2:00 PM. Saturday, February 23.

Preparation Series

The Senior Week Committee has prepared the following series. The first lecture of his annual winter series on "PIreparation Series," Prof. Magoun, attempted to define love as a "predictable, continuous, and emotional condition." He talked about the family and individual experiences in Huntington Hall yesterday afternoon at 4:00 and 5:00 P.M.

Comenius attempted to define love as a "predictable, continuous, and emotional condition," which is not to be taken as the means of determining the requirements for love and success and to define conditions under which it can be achieved industrially.

Common Misconceptions of Love

"Love" is defined as a "very rare bird" as far as the animal Kingdom is concerned. The definition of love is "the creation for one's partner of a real, actual, in whom you feel this is a much better atmosphere than the family. This is the requirement of the family for love and success and to define conditions under which it can be achieved industrially.

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THE TECH

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Published every Friday during College Year, except during College Vacation
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DRAFT?

The marked influx of letters to the Editor written in reply to John Conregni's outcry printed last week indicates that dis-
missed the thought that the draft of college students in peacetime is unavoidable. We are, therefore, going to attempt to clarify some of the issues involved.

There is the viewpoint that the drafting of students en-
gaged in scientific endeavors is sheer stupidity on the part of the Government, that the volume of graduates receiving scientific degrees during the war period decreased far below peacetime averages because of this indiscriminate removal, and that of the great powers involved in the struggle, the United States was the only one fit to take cognizance of the fact that scientific men would be needed for the future. The proponents of this point of view, therefore, feel that with the fighting over, a large draft is no longer necessary, and that scientific students, like civilians in essential industry, be deferred, at least until graduation.

There are not many more than half a million men needed for occupational duties, the draft quota can easily be fulfilled without taking students.

Naturally veterans who have been through the war and are now returning to their schools will horty contest this. They see a quality of selfishness and unfairness in these ideas, and feel that these men should deem themselves lucky that when they have to do their stint in the service, they will not have to dodge bullets and live in foxholes for months on end. These veterans left the Army on easier terms and camp where the hardships are tougher, so why shouldn't the students of today follow them, now that they will have nothing more to do than garrison or occupation duty?

All well and good, you might say, but what a waste of time and money. With scientists and engineers at a premium, the Government should leave these chores to those youths who have not entered university, but who have gone directly into work. The percentage of high-school graduates who enter college, in other words, is at a low ebb in the whole previous period of the existence of the human race, and greater is the need than last year in the transition.

Before this time we could afford war because, while it wiped out the individual, it did not materially affect the race. We were, he says, "protected from folly by our own importance."

Can Make Continent Unlivable

"Can we," asked Dr. Wiener, "learn to live with the bomb that can make our continent unlivable?" He urged consideration of the possibility that our cities might be to dis-

For the first time the arts of in-

terference, because, as Dr. Wiener stated, not all men must be of the same degree of infatuation, but due to such enormous power with the aid of chemical knowledge.

Prof. Wiener does not believe that this suddenness of the news about the atomic bomb casts any doubt on the conclusion. He praised President Truman and his Secretary of War for using wholesome and foresighted policy in regard to the bomb.

Special Board Created in May

As early as May, when it first seemed certain that the atomic bomb would be a savior, President Truman created three special panels of administrators and scientists, including Dr. Conprant and Professor Conant of Harvard.

The board was assigned the task of gathering all the facts on atomic energy and of preparing reports on the tens planned. Most important was its job of making a draft legislation on atomic energy control which it was to present to Congress immediately after opening of the first session.

It was hoped that Congress could immediately pass a bill, drafted in Hiroshima "before general confusion could set in, to allow the United States a set policy in the proposed, immediate decisions of the dangers of this power," said President Conant.

Congress in May

The board's first panel presented immediate legislation. The May-Johnson

EXAMINATION SCHEDULE

SATURDAY, FEBRUARY 15—2 A.M.

Johns Hopkins University: 1.84

SUNDAY, FEBRUARY 16—1:00 P.M.

Army: 1.17

Monday, February 15—10 A.M.

Air Force: 1.17

J. P. Tickets Go On Sale

Junior Prom tickets will be on sale Monday and Tuesday, Jan-
uary 19 and 20, from 9:00 A.M. to 5:00 P.M. in the Lobby of
the Smith Assembly Towers.

Three parties are scheduled for the Saturday night after the
Junior Prom, Saturday, February 15, from 9:00 P.M. to 1:00 A.M. in the
Nemo Rooms.

The various Prom parties will be provided with orchestra.
Crew Returns To Pre-War Program In Coming Season

Turnouts For Spring Practice To Commence Monday, January 14.

The first time in four years, crew will resume its peacetime activities with larger numbers regular. The schedule is to row against eight colleges in the regular season. The eighteen men, which included the three promising freshmen, working in the 1945-46 season, will be rowing into Harvard for the first time this year's relay team. In the Grinch, Captain Bill Chappell, a consistent winner both indoors and outdoors, leading into the locker room.

The Tech varsity swimming team is scheduled to meet with the U. S. O. G. in the Alumni Meet, and the second group will start at 4:30. Special high since medals will be cut down to six, one from each platoon. The winners of these will win M. I. T. soundly trimmed the Dartmouth 15-0, which lost last season's championship Technology unit. Shively, which lost 5-0 to last season's champions.

The Tech attack, which frequently contributed 15 points, looked like the team to beat. M. I. T. started the season with varsity experience and now a freshman at Yale, is expected to provide considerable opposition to the Crimson. Which lost 5-0 to last season's championship Technology unit. Shively, which lost 5-0 to last season's champions.

The Tech defense weakened in the fourth quarter, but not enough, particularly in their

Beaver Team Loses To Harvard, Brown, Wellard and Murphy Star For Beavers

Fighting harder than it has all season, the Tech quads nonetheless dropped their second game of the season against Harvard last Saturday. Although Harvard led throughout the contest and had a 14 to 9 advantage at the final gun, the Techmen were completely closed the gap to 4 points for the third quarter.

The M.I.T. starting lineup made up of Captain Ted Farmer and Chuck Wellard as forwards, Brown, center, and Jack Alber, and Jim Murphy at guards with Cyril Craig the only substitute until the last minute of play gave the Crimson an unexpected 6-0 lead at the half.

Chuck Wellard, second highest scorer on the court—second highest scorer on the court—only factor that prevented a win was the scoring of the first team, first place, which can flash Marks, Mathews, Curran and others from the quarter fro borough which led the league. Their

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Letters

(Continued from Page 2)

In his recent edition of The Tech, Dr. William A. Grantham, the faculty member who wrote the letter to the editor under the name "L. F. R." (November 15), made some interesting points about the future of American education. He suggested that we need a new educational system that takes into account the individual needs of each student. He also emphasized the importance of creativity and critical thinking in our schools.

In another letter, a student named John Smith criticized the administration for not doing enough to address the housing crisis on campus. He pointed out that many students are forced to live in overcrowded dorms, which can have a negative impact on their mental health. Smith called for more resources to be devoted to housing and urged the administration to take action.

Activities, Attention

ELECTIONS

All students interested in running for office in next year's elections are encouraged to contact the office of Student Government (Room 3-112) for more information. The election season is a great opportunity for students to get involved and make a difference on campus.

FINANCIAL AIDS

The financial aid office is now accepting applications for the upcoming academic year. Students are encouraged to apply as soon as possible to ensure they have the maximum amount of time to explore their options.

Hillel Continues Discussion Groups

The Hillel Foundation at M.I.T. will continue its regular cultural program throughout the rest of the academic year. The new program will be guided by a new director who will be announced soon.

Institute Committee BRIEFS

The following business was transacted at the regular Friday meeting of the Institute Committee held yesterday at 5:00 p.m. in Lieberman Lounge.

Class Elections

Class elections will be held this term for the following classes and offices: 45-46 will elect permanent class officers, president, secretary, and treasurer; and 45-46 will elect permanent class officers, president, vice-president, secretary, and two Institute Committee representatives.

M.I.T.O.C. Constitution

The Constitution of the M.I.T. Outing Club was approved. There was considerable discussion regarding the feasibility of incorporating a union. Voting was brought up and discussed.

Dance Budget Motion

It was moved, seconded and adopted that the dance budget of $1000 be approved by the Institute Committee. The motion carried.

The Hillel Foundation

The Hillel Foundation will continue its regular cultural program throughout the rest of the academic year. The new program will be guided by a new director who will be announced soon.

Hillel Seminar: "Is Equality of Opportunity and Democracy the Word of the Future?" (November 15)

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