Killian Stresses
Specialism Need
Student Must Be Able To
Achieve Competence

"We must prepare men to be skilled and creative. For his own discipline to develop, a student must be able to do at least one thing extremely well," said Prof. Crane Brinton of Harvard, Bixler, president of Colby College; and Rockwell
self-understanding; and the altru-
cultivate the aristocratic values of
and press have assumed "much of
He warned that the radio, movies,
of English and history.
Karl Deutsch of the Department
Engineering. Moderator was Dr.
ment of a "hierarchy of values."

Specialisman
sets which showed the visitors how
tronics for the use of specialized
Pentagon if necessary.

The exhibit showed the manner
of guided missiles by
attending a basic
possible, to those of the pattern of
communication. The group must be able to adapt
itself to sudden switches in the
problem--all of these
morbidity of the group--all of these
of expression-- for students with
physical condition. Men with a cum 'below 3.0, must have
Science and will sign a draft defer-
ment for International Peace.

with the addition of the "Fanfare"
with Goldman. The same program
"Hansel and Gretel," four Christ-
"Clarinet Quartet" by Crosse,
"Oedipus in Colonnus," "Ave
Washington, D.C. December 13, at 7:00 p.m. at the
The conference was held at West
who took part in the Second Annual
The Tech, in an "unprecedented effort to provide a medium
students
2 juniors Attend
U.S. Affairs Parish
Among the 170 college students
who took part in the Second Annual
Student Conference on United
States Policy for
1950's: the Far Eastern Policy for

Vivof vacation, with the United States.

SHEEAN DELAYED

The lecture planned for Monday by the Lecture Series Board to inaugurate Sheeannn's new year at the Institute was
unavoidably delayed by bad weather.

would not be held tomorrow. The
screening of "The Man Who Shot
Vigilant Vincent" was verified. The screening was
unavoidably delayed by bad weather.

The lecture was scheduled for 5:00 p.m. in 1210. Ticket admission was
required because of the rush.

LIFT SHIFTS

PHOTO BY MARKET
Dan Sullivan '52 and Ralph Romano
One way to start such a magazine, but such efforts would be found to be
independent of independent opera-
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Marvin C. Grissom '53, General Manager of "The Tech," is an "unprecedent-
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CALENDAR OF EVENTS

DECEMBER 13 TO DECEMBER 20, 1950

MONDAY, DECEMBER 13
Electrical Engineering Department. Colloquium: "Theoretical Opening of the Moon," Mr. Jeremy S. Connolly, Master's Suite Lounge, Baker House, 4:00 p.m.
Mathematics Society. Lecture: "Maxima of Eigen Problems," Professor George Scatchard, Room 3-370, 5:00 p.m.

TUESDAY, DECEMBER 14
Committee on Scientific Aids to Learning. Symposium on Documents: "Rates and Equilibria of Ionic Reactions," Professor George Scatchard, 7-134, 4:00 p.m.

WEDNESDAY, DECEMBER 15
Aeronautical Engineering Departments. Fluid Mechanics Seminar: "Unsteady Motion of a Plane Point in Two-Dimensional Flow," Mr. Robert Davis, Room 3-370, 4:00 p.m.

THURSDAY, DECEMBER 16
Committee on Scientific Aids to Learning. Symposium on Documents: "European and American Practices in Documentation," Library Lounge, Room 16-B216, 5:00 p.m.

FRIDAY, DECEMBER 17
Physics Department. Colloquium: "Plastic Spectrum of Solids from Temperature-Defect Scattering of X-rays," Dr. Henderson Cole, Research Assistant in the Physics Department, M.I.T., Room 6-420, 4:00 p.m.

JUNIOR YEAR VARSITY TEAM
Tech Model Railroad Club. Public showing of two General Electric train films in connection with the annual M.I.T. Model Railroad Convention, 7:00 p.m.

SATURDAY, DECEMBER 18
Technology Day. The Christmas Tree. The Choral Club will present their annual program of Christmas music. Husbands are invited. The program will be under the direction of Mr. Jeremey S. Connolly, Master's Suite Lounge, Baker House, 5:00 p.m.

SUNDAY, DECEMBER 19
Lowell Institute Committee on Federal Council, SCIENCE ON TRIAL, "Max Science Undermined Religion?" Dr. George R. Harrison, Dean of Science, M.I.T.; Dr. Norbert Winter, Professor of Mathematics, M.I.T.; Reverend Michael J. Ahern, S.S., Professor of Chemistry and Geology, Boston College; Dr. Alexander 6. Leavitt, Lecturer in History, M.I.T.; John Hammond, Senior, Brown and Nichols School; and Edward Neary, Senior, Boston College High School. WHDH & WHRB-FM, 6:00-10:00 p.m.

MONDAY, DECEMBER 20
American Institute of Electrical Engineers-Institute of Radio Engineers. Symposium on "Power By Which We Live," a not altogether unwarranted slapstick, left with the concept of the relative merit of any underlying theory which unfortunately always depends on the artist's ability to inspire confidence in the total work, and without a good deal of science and experience behind it. Several papers were of professional interest. Advance Underwood, Gaines Creel, and Paul Maitham. Of special interest was the chorus, for their singing, which was displayed splendidly and in dynamic flexibility, was not only good, but also beautiful, and not only beautiful, but also beautiful. The orchestra was its task commoditatively, with its inspired performances, making it the fulfillment of the score's orchestral demands possible. All in all, it was evident that Paul Leverett had spent a great deal of care and energy in rehearsing and polishing. The final product was a marvellous performance.

3:30 p.m. Round Table Discussion on "European and American Practices in Documentation," Dr. Henderson Cole, Room 3-270, 5:00 p.m.

5:00 p.m. Nomination of officers. Room 3-270, 5:00 p.m.

9:00 p.m. Cookies and hot cocoa for the hexapoollers. Room 3-270, 5:00 p.m.

Dear Sir:

Last week you succeeded in doing something which we would hardly have believed possible. You made us ashamed of our association with M.I.T. Specifically we are referring to the Hexapooll show. We were humility by a show which did contain one bit of good earthy entertainment. All you had to offer was a first-rate juke box, a hilarious band from Tufts, and several very entertaining acts put on by various college groups. In trying to avoid giving offense to anyone you succeeded in embarrassing many of us. It was indeed a shamer performance—one more worthy of the gentle "men" up the river, than of the M.E.N. of Technology.

The Renais Literary, Beer, Chowder, and Marketing Society.
Engineer Swimmers Lose Second Straight To Brown University

Brown University downed the Tech varsity 26-20 Saturday at Providence despite a 20 point spurt Tech put up in the last three events. This was the season opener for M.I.T., the second straight loss for MIT.

Tech Wins Medley

Captain Bob Pelletier and Baker provided the two individual wins for Tech in the 100 yard breast stroke and the 440 yard free style, respectively. The Crimson and gray team of Wessel, Schesser, Schesser and Baker took the 40 yard free style medley.

This was the first meet in the Colgate Pool under the new swimming rules that makes the back stroke 215 yards. Fuller of Brown set the pool record of 2:30.6 at the new distance.

Freshmen Lose

In the companion meet Brown's freshman swimmers downed Tech's fresh for their first loss.

The varsity summary is as follows:

**M.I.T.**
- 21-11 loss.
- 200 yard breast 1st, Fauller (B); Damon (T); 2nd, Fauller (B), Damon (T); 3rd, Allen (B). Time: 2:28.4.
- 200 yard back: 1st, Fauller (B); Damon (T); 2nd, Fauller (B), Damon (T); 3rd, Allen (B). Time: 2:25.1.
NOTICES
A.S.M.E. Meeting
For its last meeting of the term, A.S.M.E. is sponsoring a talk by Professor
Harry E. Edgerton on the "Stereoscope." Details of the National A.S.M.E.
Technical Conference will also be discussed at the meeting which will be held
today at 5:00 p.m. in Room 10-250.

Chemical Engineers' Dance
The Technology Chapter of A.I.Ch.E. will hold a Christmas Dance on
Friday, Dec. 12, 8:32 p.m. The Technicians will play and there will be
eggnog and group singing.

L. S. C. Movies
The L.S.C. movie series will present "In the Night," starring Claude
Calvet and Clark Gable and directed by Frank Capra. today at
7:30 p.m. in Room 10-250. Admission
price is thirty cents.

Operation Octopus
(Continued from Page 1)
the regulation and control of each experiment was developed. The
machine, while not yet completed, will, it is hoped, greatly simplify the
tasks of the Research Group.

In building the machine, which is known as Octopus, certain con-
considerations had to be observed. The problem, which would be dependent
on the machine, could not be trivial, nor time consuming. The
messages, which would be sent through the machine, would have to be
limited to a few simple symbols.

Complicated Patterns Possible
Set up for experimental groups of five persons, the machine sends
and receives on a panel of switches and lights to which each member
of the group has been assigned. The problem starts with each member
being given a number, either 1, or 0, and consists of having each member
find out all the numbers, add them up, and give the answer to
tell whether the sum is odd or even.

Messages cannot, of course, be sent by anyone to everyone. This is where the pattern of com-
munication comes in. It is set up and controlled as the master con-
trol panel. It can be changed at will, and determines who contacts
who.

Messages between any two mem-
bers of the group cannot only be altered, but can be tricksed also.
Thus all, or half, or any part of the messages may and by a group member
be changed to suit the opposite of what he sent. This can com-
plete the pattern quite a bit.

Steps Automatically
Each problem, as it is set up, does not necessarily require that
each member of the group get the right answer. The control panel
is set before each experiment, and the members may be required to
get the correct answer, any answer, or nothing in particular. For
example, two of the five group members may be required to give the
right answer, two others any answer, and the fifth may have
nothing required of him.

When all of the requirements
have been satisfied, the machine
automatically records the time and
lights up a sign on each panel tell-
ing the group that the problem has
been solved. The messages sent and
other data have been recorded, as
well as having been observed by the operator on the control panel.

This then is the work of the
Human Communications Research Group. When the machine is
completed, it should serve as a pioneer in experimental methods in
the field of research in communication.

Of course, the machine is limited
and the area of research quite small, but it is felt that the
results obtained will be basic enough to be worthwhile getting
for further studies.

Calendar (Continued from Page 1)
TUESDAY, DECEMBER 19
Technology Maconen. The Bridge Group. At the home of Mrs. Ralph
Freeman. 805 Memorial Drive, Cambridge, 1:30 p.m.
Tech Model Railroad Club. Business Meeting. Room 204-216, 1:15 p.m.

WEDNESDAY, DECEMBER 20
Acoustics Laboratory. Seminar: "Some Notes on Electromechanical Re-
1560 Massachusetts Avenue, Cambridge, 6:10 p.m. All Masons at M.I.T. are
ordently invited to attend.

EXHIBITIONS
Photographs by Glassve John Lashilmin will be shown in the Lobby
of Building 7 through December 14.
Photographic Salon prints by Raymond R. LaPelle of Philadelphia,
Pennsylvania, will be on display in the Photographic Service Gallery,
Building of 11, through December 14.
An exhibition of Mobile Sculpture by Alexander Calder will be on
display in the New Gallery of the Charles Hayden Memorial Library.
Room through Friday, 10:00 a.m. to 5:00 p.m. through January 14, 1951.

CALENDAR OF EVENTS
The Calendar of Events will not be published for the next three
weeks, December 20 to January 9. Material for the Calendar, January
10-16, is due in the office of the Editor, Room 7-394, and later than Noon
on Thursday, January 4.

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