CALENDAR

Tuesday, January 7
12:00 Dr. Hansaker Lunchen, Silver Room, Walker Memorial
6:00 Chi Epsilon Dinner Meeting, Silver Room, Walker Memorial
6:00 Dr. Heerey Dinner Meeting, Grill Room, Walker Memorial
7:00 Alpha Chi Sigma Dinner Meeting, Faculty Dining Room, Walker Memorial
7:00 Tech Show Rehearsal, Walker Gymnasium

Wednesday, January 8
12:00 Professor Pearce Lunchen, Silver Room, Walker Memorial
6:00 Graduate Student Dinner, North Hall, Walker Memorial
6:00 Class of 1907 Dinner Meeting, Silver Room, Walker Memorial
7:00 Dormitory Basketball Games, Walker and Hangar Gymnasiums
8:00 Hockey Games, Dartmouth
8:00 Varsity Basketball Game, Harvard Gym, Harvard University

Thursday, January 9
6:00 Oscar Hedlund Dinner Meeting, Silver Room, Walker Memorial
7:00 Tech Show Rehearsal, Walker Gymnasium

Senior Dance
(Continued from Page 2)
from 12 to 2 o'clock. This will be the last chance to obtain tickets; none will be sold at the door to the dance!
Patrons and parantheses of the dance will be: Dr. and Mrs. K. T. Compton, Dr. and Mrs. Vanmeter Reed, Treasurer and Mrs. Horace E. Ford, Dean Harold E. Liebald and his mother, Professor and Mrs. Leicster P. Hamilton, Professor and Mrs. James R. Zuck, and Mr. and Mrs. John M. Nails.
The committee in charge of the senior dance is composed of the following members of the Class of 1936: Scott G. Rothfuss, Robert E. Werden, William W. Gerth, Robert S. Gillette, and Richard E. DeWolfe.

"Nick" Carter
(Continued from Page 1)
ereciting their thesis set-ups.
While giving this interview to The Tech, Mr. Carter was interviewed several times with questions of the following diverse natures: "Where is the 1926 correspondence?" a professor wanted to know. "Nick" drew out a record book from his desk and produced the desired information. "Where can I buy Bakelite tubing?" a thesis student inquired. "Nick" snapped back complete with the address and telephone number of the firm without a moment's delay.
 Someone wanted an Orsat analyzer, someone else asked for test checkers, a professor dropped in to find out about the progress of his student's work. N.Y.A., N.Y.T., and N.Y.R.C. students have asked for several reprint articles, a student wanted to know why he did not do as well as he did in the short space of one-half hour while we were getting吃饱. All the writers were told to get with dispatch and the "dashing heroes" kept renting, amply, under the administration of the good-natured "Nick" who boasted that there was less "red tape" in the procuring of supplies in his department than in any other in the school.
Was Kerrand Bay
Harold Carter comes to the Institute in 1919 as an errand boy and electrician's helper. Two years later he was made laboratory assistant in what was then the Research Laboratory of applied Chemistry. At that time, when Course X was in its infancy, investigators were working on problems for Industrial concerns under the direction of William H. Walker, then head of the course.

Does Work of Nine Men
Later on, he was given complete charge of the service department of that division, which comprised a staff of nine men, including a draftsman, a clerk, two laboratory helpers, an engineer, a stock room boy, and three mechanics.
When the work of this division was contracted and taken over by the Division of Industrial Cooperation in 1932, he was associated with Ernest Gutfroin, mechanic, who took charge of the drafting department. Thus is explained the heterogeneous collection of the jobs that he now has to perform.
When the National Youth Administration came into being, "Nick" was given charge of the men assigned to the Chemical Engineering Department, 25 of whom are now engaged in work in connection with various staff members of the department.

Shaking Tables
(Continued from Page 1)
A piston connected to a plunger which is free to move in any direction. This electrically-controlled device consists of a valve which feeds the air into the piston chamber. This valve is moved by exactly the same way that a radio receiver moves the diaphragm of a dynamic loudspeaker, only the force available for moving the valve can reach a maximum of nearly fifty pounds, and consequently it can move very fast.
Such a machine is brashly referred to as a "shaking table". Up to the present shaking tables have been capable only of simple back-and-forth motion, or, at least, a mechanical cam-drive could be used to give certain motions of irregular character. The new machine developed at Technology is extremely flexible, does away with expensive and cumbersome mechanical cam drives and has no limitations as to how irregular an earthquake it can reproduce. Furthermore, it can reproduce non-repetitive irregular motions which continue for so long a time that no mechanical cam would be capable of producing them. To change from one motion to another, it is necessary to pass a different slide rule through the housing of the machine. One of the interesting features of this shaking table is that, although it can produce forces of over two thousand pounds when necessary, it produces only the amount of force needed to make it follow the shadow graph properly. If a model is being shaken on the table, the machine "thinks" automatically to translate the forces on the machine in such a way that the reaction, or "back kick", of the model does not change its motion from the required path. This in another advantage which earlier machines did not possess.

"Men folks... Humph!"

"Grandma Perkins' knitting needles clicked viciously. Humph! Men folks! Always trying to show how much they know!"

Well—she gave them a lesson or two about chicken raising. In spite of Zeko and the boys she put some of that new-fangled Cell-O-Glass on the chick pens, just like she read in the paper, and the springers were doing better than they ever did before. Men folks—Humph! It was the same way with her favorite chair—the old roll-seat rocker. Zeko wanted to throw it out on the woodpile. But Grandma got some Duco Cement, and put the springers back as good as new. Then she got a can of Duco and brightened it up with a slick of whine.

Grandma Perkins doesn't know anything about Du Pont. She never has to use it. She's just as sly and smart as ever. In fact, mother, Du Pont products are making life more comfortable for people everywhere.

The Pyralin knitting needles clicked again—with satisfaction. They, too, were made by Du Pont.

The Tech Banquet
(Continued from Page 1)
10:00, Dr. E. Rhod, Brass; Ralph Y. Johe, Chairman of the Tech Review and secretary of the Alumni Advisory Council on Athletics, and A. Shane Ellis, Editor of the Technology Review.
Student guests expected include John C. Austin, '36, president of the Senior Class; Brenton W. Love, '36, Editor of T.E.N.; Dorian Shainin, '36, General Manager of T.E.N.; and John E. Smith, '36, General Manager of Techniques.

Published has been made for the future addition of another drive at right angles to the first, so that motions of a more general character can be reproduced. It is also possible to add a vertical component to the machine if that becomes necessary in the course of future research.

THE TECH
Tuesday, January 7, 1936

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Page Four