By Ken Creelman E. E. '50 and

If you have tuned over the short wave bands of your radio and heard some wierd noises that didn't seem to make any sense, they may have been teletype signals or possibly telephoto signals. Many of these are trans-Atlantic news stations. Others send private radiograms overseas and to ships at sea. The military services of Canada and the United States are using radio teletype to an increasingly great extent for their signals traffic. It is somewhat amazing to see news printed out in front of you after tuning in one of the teletype stat-

For our thesis work in our senior year of Electrical Engineering a unit to receive radio teletype signals was constructed. The Elect rical Engineering department had two obsolete Model 12 page printers. These teleprinters were of the stations and newspapers a number of years ago. They normally operated from the telegraph lines which are connected to the central newsrooms of Canadian Press and British United Press. While these lines were not available to us there are a number of radio stations transmitting news with the same telegraphic code as the Model 12 but in the form of two radio fre quencies. This code, called Baudot, it not like Morse code but is made up of "spaces" and "marks' rather than "dots" and "dashes" The problem for us was to receive these radio signals and convert them into marks and spaces to operate our teleprinter.

The first thing that had to be done was to change the speed of our printer from 40 words per minute to 60 words per minute to correspond to the standard speed of the stations we wished to receive. Special gears were obtained through the kindness of Canadian Pacific telegraphs in Montreal to convert our machine to the 60 word speed.

A communications receiver was a necessity also and luckily one was available in our labratory. The main item to construct was a discriminator unit consisting of tuned amplifiers, detectors, and D. C. amplifiers. The tube complement of the unit was 4-6J5's, 2-6H6's and of the traffic is in cypher form for 2-6V6's. Four special transformers secrecy purposes. The results of were obtained from a manufactur-er who designed them especially for this use. A power supply deliv-since October. was also constructed to operate the discriminator unit

After the procedure of tuning obtaining frequency response cur ves and measuring teletype distortion, the equipment was tried out Tuning the receiver to the radio teletype signals was critical at first but this adjustment was mastered

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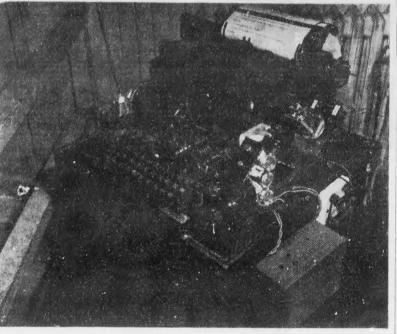
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ODE TO A FORESTER . . .

I think that I shall never see. A clod so dumb as you seem to be; When from my lofty perch I see You staring fondly at a tree. A tree which dogs would fain go near, But which to you seems Oh so dear. And how the citizens do shout, To see you, great big sodden lout, Chase the sexy coeds, slim, From tree to tree, and limb to limb-You never seem to get the dame, For coeds play a subtler game. Like a homing pigeon back to roost, When for some clues you need a boost, Who is it that you come to see? But the Engineers from U. N. B.

With abject apologies to Joyce Kilmer and our coeds for even associating them with (Ugh!) Foresters.

with a little practice. So far we have copied about a dozen different teletype stations transmitting news, stockmarket quotations, radiograms and military traffic. Some

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Red 'N Black Revue Telephone Building Toured

Once again, as in the two past years, the Senior Class Up the Hill as to the citizens of Fredericton an no competition in the Maritime Provinces. A Revue which presents skits, songs, chorus lines and feature soloists, it is unique in this part taken to the room containing the of the country.

The thrill of producing such a show belongs to the marvellous cast which includes students from were also explained to the inter-Many hours of gruelling work in rehersal are put in by these budtype used in news offices of radio Teletype Printer in the Electrical Lab. used in the Cosman-Creelman ding stage aspirants but they enjoy doing it.

Time given by these young actors lines in working condition. and actresses is free. Proceeds from the show go to the Senior Class which uses them in order to sponsor the Senior Dance during Encaenia week. The remainder of the funds is handed over to the Life Executive of the Graduating class to be used to defray any future correspondence costs or expenses which the class as a whole might incur.

Tickets for the show of the year will be available shortly. The critics who have had a preview of the production highly recommend it and hope that every one will be present on March 1, 2 and 3 to en-

What well-known Senior Electrical Disc Jockey leaned against the doorbell at 1 A. M. Friday morning when bidding his girl friend good night? We hear that the landlady was very annoyed.

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is presenting the Red 'n Black Revue. Originated by the Class of Radio Club met at the office of the 48, the Revue is a community ef- New Brunswick Telephone Co. on fort under the direction of the Grad- King Street and were met by Mr. uating Class. Bringing forth all Ralph Williams who conducted the available acting talent at UNB them on a tour of the building, it affords to the students as well showing them how the exchange in Fredericton is run. Some of the event which may be looked forword luckier fellows were taken upstairs to. For three evenings—this year where they were allowed to watch March 1, 2 and 3—the auditorium the long distance operators at their of Teacher's College will be the work. Mr. Williams and two assisscene of a stage show which has tans explained the workings of the emergency power supplies and equipment used in producing the dial tone and the busy signals etc.
The functions of this equipment ested groups.

Finally the groups arrived in the testing room an were shown how the various instruments are used to keep the communication

All questions were answered very ably by the group's hosts.

Red 'n Black Revue

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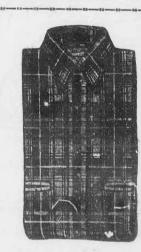
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