EDITORIAL COMMENT

Detector Bars in 1932

TRAIN accident occurred recently at Indianapolis, A Ind., when a towerman inadvertently operated a switch lever while a train was passing, throwing the switch under the train, and derailing two cars. Of course, the leverman had disobeyed the rules by restoring the home signal lever to normal before the train had cleared all the switches in the route. But, as-the Bureau of Safety points out, a contributing cause was the fact that the detector bar, which should have prevented the operation of the switch under a moving train, failed to perform its intended function. According to the reports "There was lost motion between the switch machine and the bar; and the bar was 1/4 in. lower than it should have been. This condition is one which adequate inspection and maintenance should have corrected.'

Thus the direct cause of the accident was the failure of the detector bar to function properly. This antiquated device, with hundreds of others of its kind, should have been relegated to the scrap heap long ago, and replaced by detector locking controlled by track circuits. As a matter of fact, the switches on the other roads in this plant were protected by detector locking, and doubtless the particular road on which the accident occurred, recognizes the superiority of track circuits as a means of protection but had not been able to secure authority to replace the bars. To this road as well as many others this accident is a forceful example of the inadequacy of detector bars to afford protection, especially when used with the heavier and wider rails and larger locomotives. Inadequate inspection and maintenance of any equipment, even detector bars, is to be criticized, but the use of detector bars on highspeed main lines in 1932 is also to be criticized.

The Annual Convention

THE 1932 annual convention of the Signal Section, A.R.A., held in Chicago, May 10 and 11 of this week, was a success from several viewpoints. The attendance was better than expected, 238 members being in attendance, and the representation from various parts of Canada and the United States was good. Fewer representatives were present from certain roads, but the number of roads represented was practically on a par with

previous meetings.

The convention was strictly a business meeting. Chairman Rice made a brief opening speech and the remainder of the program was confined to a consideration of the committee reports as published in the advance notice. The reports on technical subjects, including specifications, were well prepared and although the discussion was lively, the action to be taken was arrived at expeditiously. Great interest was evinced in the report on highwaycrossing protection, the chairman bringing the members the very latest information on developments in this field. Many roads are experiencing delay in applying the new reflector-type signs, "Stop on Red Signal," because definite standards have not as yet been developed to guide

the manufacturers in producing the signs. The results of tests made in New York on April 5 will soon be tabulated and will then be available for the benefit of both the railroads and the manufacturers. More details about these and other outstanding happenings at the convention will be found in an article elsewhere in this issue. The mailing of this the May issue of Railway Signaling was postponed only long enough to enable us to include this report. We hope that the delay, which amounts to about 10 days, will be offset by the reader's interest in this account of the convention.

Besides including this story of the convention, this issue differs somewhat from usual numbers in that all of the feature articles are devoted to special problems of maintenance and operation; two articles are devoted to the development of two different types of bonds; two more are given over to two different types of power supply for signaling, while other articles explain the maintenance of centralized traffic control and automatic

block signaling on two different roads.

Likewise, certain roads have for years discussed the desirability of providing an adequate signal repair shop. The savings to be effected are readily apparent, but the problem is to decide on the equipment required, arrange for the housing of the shop and secure authority to proceed. The Canadian Pacific recently passed through such a procedure, and now has a modern, well-equipped signal shop, which is described in an article in this special number.

Now That It Has Happened

THOSE interested in the development and installation of automatic interlocking plants during the past 10 years, have been waiting, figurately speaking, with their fingers crossed, for a disastrous collision on a crossing protected by such a plant. However, now that such an accident has occurred, as set forth in an article elsewhere in this issue, we should study the situation sanely before we blame the automatic principle, or load up such installations with a lot of attachments that, in themselves, may defeat the efficiency of these plants, which to date have given an excellent account of themselves in reducing operating expenses.

In the first place, in spite of all rules and safety devices accidents do happen occasionally at ordinary interlockings. As the number of automatic plants has increased, it is inevitable that an accident would eventually occur at one of the 310 plants now in service.

In the collision referred to, the evidence, as reported by the Bureau of Safety of the Interstate Commerce Commission, tended to show that the plant was operating as intended, and that the train which was struck had been the first to enter upon the control track circuit and had been authorized by proper signal indication to proceed. However, the engineman and fireman on this train were killed in the accident, as was also the fireman of the train on the other road. The engineman of the second train, the only remaining source of information,