THE TECH, BOSTON MASS APRIL 26, 1913

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MECHANICALS HEAR INTERESTING TALK
Mr. J. W. F. Macdonald Describes Manufacture of Modern Boilers.

At 4:45 P.M. yesterday afternoon, the Mechanical Engineering Society held a meeting in 11 B, and were addressed by Mr. J. W. F. Macdonald of the International Boiler Works of Boston. Mr. Macdonald's address was "Modern Boiler Making Process," and it was excellently illustrated with slides made from photograms taken at the works in Framingham.

Mr. Macdonald began his address by first showing the plates of the boilers themselves, and then those showing the entire process of manufacturing the boilers, the hammers, etc., and said the speaker is not necessarily a new boiler being built in the works, and the entire plant is made up of steel structures, reinforced with concrete.

In a modern boiler the boiler steam is stored in huge tanks and the idea is designated on the outside of the boiler. All plates are stored in stacks, each for the purpose, and they are all heated by the State inspectors before being put in the stacks.

The first and most important step in the manufacture of boilers is that of the lining out. After the plates and heads are first brought to the layout benches after being taken from the stack rooms, and then are laid out very carefully so that all parts will fit after being finished in the various departments. When the plates are all marked out they are taken to the splitting apertures, and here they are trimmed up exactly to size. They are next brought to the punching shears, and here all the holes are punched. All holes punched must be smaller than the finished size in order that they can be cleaned to give a tight fit.

All steps in the manufacture were carefully outlined and several tests were described showing the advantages and disadvantages of certain types of boilers. A large number of slides were shown of modern boilers being installed in the different parts of the country by the International Boiler Works.

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