

relief map of a Province, or of an extensive series of entrenchments. A principle or a theory, concerning anything whatever which may be visualized in material form and which is of considerable magnitude, can be shown far better on small scale model than in any other way. It can be seen as a whole, and, if well carried out as regards details, each detail falls into its proper place and may be examined minutely. One can see, almost at a glance, what it would take months of study to understand, when presented by others methods.

Military Models.

The navy, as compared with the army, has always made a much greater use of models for purposes of instruction. There has ever been a fascination in fashioning miniatures of water craft. In England, there are beautiful models of vessels, the series reaching back almost to the beginning of the national navy. So it is but natural that for a long time, training by the use of models has been considered indispensable in England and in the United States. From perfect working models of ships, fifteen or twenty feet long, naval cadets and apprentices would learn both the construction and the working of a full rigged ship. These models were complete to the last block and seizing. For the same purpose, modern battleships are also reproduced, and the drill of dropping and raising anchor is carried on by the aid of models. Even working of guns and turrets is illustrated by means of models. The best types of hulls for battleships and torpedo craft, are ascertained by the use of models, drawn at varying and definite rates of speed through long tanks. In such cases, the value of models from the point of view of economy, is inestimable.

Following the example set by the navy, the army is also now making much greater use of models for instructional purposes.

Artillery Models.

At the War Department, in Washington, D.C., is a wonderful series of working models of all types of guns built for use by the army, each model being constructed on a scale of an inch to the foot. These models range from the eighteen pounder field gun, drawn by a team of six mules, and complete to the last buckle on the harness, to the great twelve inch coast defense gun, in concrete emplacement on disappearing carriage. I remember looking in astonishment at a model of the latter

"WHEN WE DEAD AWAKEN."



—“Evening Post”, N.Y.

type of gun, complete in all the detail of its intricate mechanism. The model gun was four feet long, and of one inch bore, and I was assured by the attendant that it would actually fire and perform the functions of the larger gun of which it was a representation. But what astonished me most, was a tool chest, four inches long, filled with miniature tools of all kinds. There were screwdrivers, oil cans, wrenches an inch long as perfect in finish as if made for a scarf pin, and yet, I was informed, the gun could be taken apart, completely dismantled, and put together again by the use of no other tools than those in that miniature tool chest. This was a model indeed.

(Concluded next week)

OBEY THAT IMPULSE!

Get a copy of “Knots and Lashings” to send to the folks back home. You may be sure they will be glad to get it. The postage is one cent.

THOSE ARISTOCRATIC “DRIVERS”.

The Drivers had just gotten out of Quarantine and were once more “dining out”, with the genial Cook Sergeant. Over the “cigars and coffee”, a common Sapper ventured to enquire deferentially of one of the Drivers,—

“Hello, and what’s been the matter with you?”

Whereupon the ‘superior one’ loftily replied:—“Oh! we’ve merely been suffering from EN-U-I, old chap.”

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