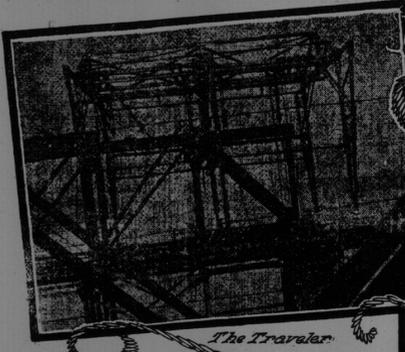


THE EVENING TIMES, ST. JOHN, N. B., SATURDAY, SEPTEMBER, 19, 1908.

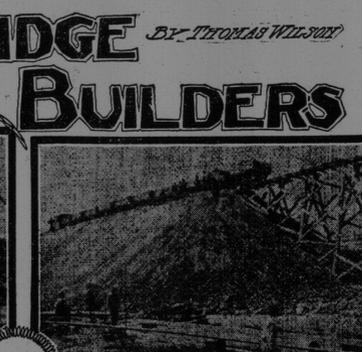
THE BRIDGE BUILDERS



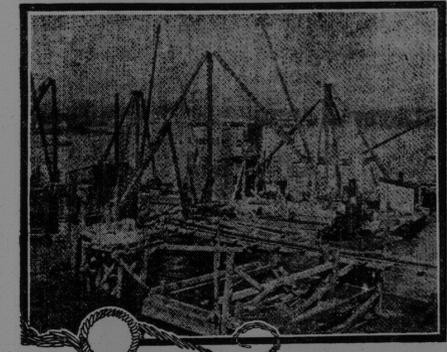
The Traveler



The Completed Structure



Building the Embankment or Approach



Direction of the Pier, Sinking the Caisson

IN the great advance made in mechanical arts and construction there is probably no thing that has reached such high degree of perfection as the bridge.

ROMAN BRIDGE BUILDERS. It was the Romans, however, who demonstrated to the world the art of building bridges that would not only answer the needs of the day, but would withstand the wear of centuries.

of antiquity in the stone structure across the Danube, near Warkel, Hungary, it being 4,500 feet long and 60 feet wide.

Wrought and cast iron did not make its appearance in bridge work until toward the close of the eighteenth century, but since then there have been great strides in the use of this material, almost to the entire exclusion of stone, owing to the cost of the latter.

work have been largely made by railroad engineers, and have been paid for by the railroad companies.

INTERESTING CONSTRUCTION. The building of one of these great highways of the air is most interesting. The approach is the first consideration, and is made to the bank on either side. Some-

times it is necessary to make a deep cut and sometimes a deep fill. In the latter case the earth is brought to the site in small cars and dumped until the embankment is completed.

Then begins the work of the iron-molders. The iron work, having been carefully set up and taken apart at the foundry and each part marked, is shipped to the site. Wherever possible, the engineers build from each toward the center, thus effecting a saving of time, but often it is impossible to do this and all has to be done from one end.

traveller, a curious framework on which are two or more derricks with long booms. With the derricks the long iron beams are swung into position and held until squads of men can bolt them together.

Of suspension bridges the most notable examples in the world are to be found in New York across the East River and Hell Gate, but one of the most interesting suspension bridges is in a Colorado canyon. It became necessary to devise

some sort of a structure to enable a railroad to skirt the edge of a cliff but above the flood mark of the stream.

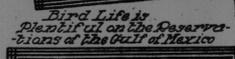
MOVABLE BRIDGES. Following the bridge as a means of crossing streams came the conversion of bridges into a means of defence for castles and even towns. These bridges were the first of the movable type and were used chiefly as bascules or drawbridges to span the moats surrounding the point of defence.

able to build a high level bridge for the same reason. The desire to have the channel as wide as possible precluded the use of the swing bridge with its central pier, so there was but one type left—the bascule—and it was adopted.

Perhaps, however, it was founded on fact. The fine snow mountain just discovered in the eastern part of Dutch Guinea may be the summit that was reported, though the peak which H. A. Lorents has seen is not so high by a mile as that was said to be, for its culminating point is only 14,700 feet above sea level.

WHERE BIRD MEETS MAN UNAFRAID

By Wm. A. Du Puy



Bird Life is Pleasant on the Reservations of the Bull at Nazco



A Young "Noddy"

THE Game Preservation Bureau of the national government has created a common ground where the hunter and the bird may meet in fellowship with no threat for one or the other.

WILD BIRDS EAT OUT OF THE HAND. Dr. A. K. Fisher, of the Game Preservation Bureau, reports that he recently personally witnessed Canadian geese and various specimens of ducks feeding from the hands of the keepers of Golden Gate Park, in San Francisco.

COVERED WITH BIRDS. Pelican Island, on the east coast of Florida, is the nesting place of thousands of the birds from which it takes its name, and these are practically the pets of hundreds of tourists that visit this congested bird metropolis every year.

100,000 DUCKS A YEAR. Breton Island reservation, at the mouth of the Mississippi, when taken in connection with the Audubon reservation, which adjoins it, is the greatest hatchery for ducks in the world.

GRIZZLIES GET FRIENDLY. The birds are also protected in such large game preserves as Yellowstone Park and the Wichita game preserve, in Oklahoma, which has been recently created with more than 2,000,000 acres of protected area.

DUCKS GETTING WISE. Another example of the conduct of feathered things upon a preserve where they are safe from hunters was recently observed at one of the tourists' hotels on the Indian River in Florida.

THE Nests of the Birds are Immune from Intruders. Dakota, four islands containing 28 acres, were set aside in 1905, and it has been already observed that it furnishes a haven of refuge for the birds of the whole section during the season of open shooting.

WHERE THE PEACOCK REIGNS. The little native State of Mourhans, known as the "Peacock Kingdom," is the most northerly of the tributary states of Orissa, and native chronicles relate that the principality was founded more than 2,000 years ago.



The Game Warden Cares for the Young

The Nests of the Birds are Immune from Intruders



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UNKNOWN MARVEL IN DUTCH NEW GUINEA

It was reported years ago that a snow-crowned mountain, more than 20,000 feet high, had been seen in the far interior of New Guinea.

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