

When 12,000 Immigrants Raced for Entrance to U. S.



Immigrants on the S. S. Guilio Cesare salute the Statue of Liberty as the vessel steams into New York harbor. It was one of 11 boats carrying more than 12,000 immigrants which stood outside the harbor until midnight of the last day of the old quota period and then raced to insure acceptance of the passengers at Ellis Island before the new quota was exhausted. Inset are Tony and Angelo, future Americans, unconcernedly eating "pie" as the dramatic race is run.

AMATEURS CUT OFF
BY NEW SEVEN-WAY
RADIO-PHONE CABLE

To Make Seven Conversations Flow
Where But One Flowed Before
Is New Achievement

AVALON, Santa Catalina Island, July 10.—Making seven conversations flow where but one flowed before is the engineering achievement credited to telephone engineers, who have just finished laying what is said to be the world's first one-pair submarine telephone cable between this island off the southern California coast and the mainland, 25 miles away.

Before the introduction of radio telephony, island dwellers here had to depend on the mails for communication. With the wireless came relief of a sort for with a radio "talk bridge" linking the island telephone line with the vast network of wires covering the mainland, one could carry on a conversation with any point in the United States.

Only one conversation could be carried on at a time by this method, however, and the conversation usually found its way into thousands of amateur radio sets as well as the telephone company's receiving device, thus losing all vestige of privacy. The last-mentioned difficulty was overcome recently by means of a word-scrambling device which made island telephone conversations unintelligible to "outside" receiving sets.

Now that the one-pair cable is in place, however, as many as seven conversations can be carried on simultaneously between Avalon and the mainland. The interesting feature of the one-pair cable is that the seven conversations flow simultaneously over a single strand of copper wire in the center of the cable, a system of varied frequencies similar to that used in radio telephony making this possible.

The ship which laid the cable is as interesting as the engineering achievement in which it played a part. It is the United States army cable ship Dellwood, which came all the way from Alaska to pay out the 60 miles of heavily insulated and armored wire across the channel separating Santa Catalina island from the mainland. The chan-

nel is only 25 miles wide, but its unusual depth required 30 miles each for the two cable lines, which traverse the ocean bed two miles apart and come together at the mainland and island terminals.

The Dellwood's Filipino cable crew is used to deep-water jobs, however. Filipinos make the best cablemen obtainable, according to Captain Parsons, in charge of the vessel's laying and repair operations.

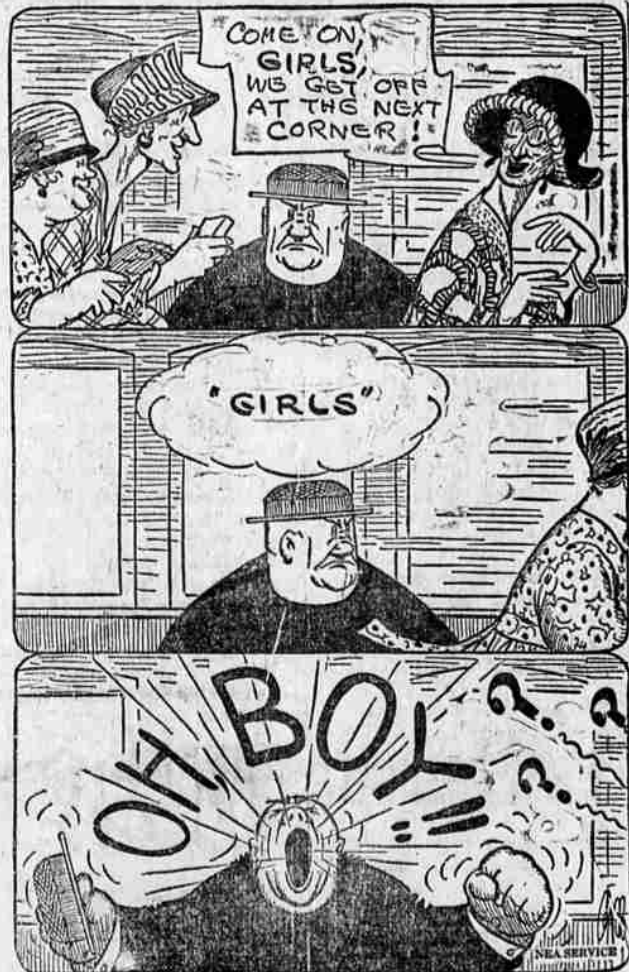
"Our Filipinos don't know what danger is," he said, referring to the perils encountered along the north Alaskan coast, where the Dellwood has been at work for the past year repairing the 20-year-old Washington-and-Alaska cable, operated between Seattle and Sitka

by the United States army. "When a man goes out over the overhanging bow in a boatswain's chair to cut a steel cable with a gale breaking against the ship, he can't be troubled with a yellow streak. Our Filipinos do that and similar stunts every day in Alaskan waters."

The Dellwood's mechanical equipment for its task included five huge tanks, capable of holding 1,700 miles of deep-sea cable wound about hollow steel cores. On the forward deck is the cable "picking up" machine, which brings up the worn-out cable on a repair job, and on the after deck is the "paying out" machine which brings the cable up out of the tanks in the hold and pays it out over the stern onto the ocean floor.

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STATE FLOWERS PROTECTED

SAN FRANCISCO, Calif., July 10.—The California Wild Flower Conservation league has been incorporated for the purpose of holding frequent scientific displays of California's native plant life for educational purposes, the officers of the league

announced here. The officers are: Mrs. Bertha M. Rice, president; David Starr Jordan, W. Campbell, Mrs. A. W. Scott, Mrs. William H. Crocker, vice-presidents. The league is conducting a state-wide campaign for the protection of the California poppy, the state flower.

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