

ON THE COVER-



NE OF THE MOST dramatic views, we believe, of the spires of Lower Manhattan is this selection by our Tow Line cover artist Albert Brenet. The strikingly beautiful HOEGH ELITE

is ideal foreground as she rides at her former East River dock just below Brooklyn Heights. Leif Hoegh & Company has since moved its facilities to Pier 6, Bush Terminal, further down the Brooklyn shore. The great Norwegian shipping company has also added three new high-speed freightships to its world-wide fleet of cargo liners, tankers and bulk carriers: HOEGH OPAL, HOEGH ORCHID and HOEGH ORRIS. The Hoegh Line was 40 years old in 1968. Congratulations!

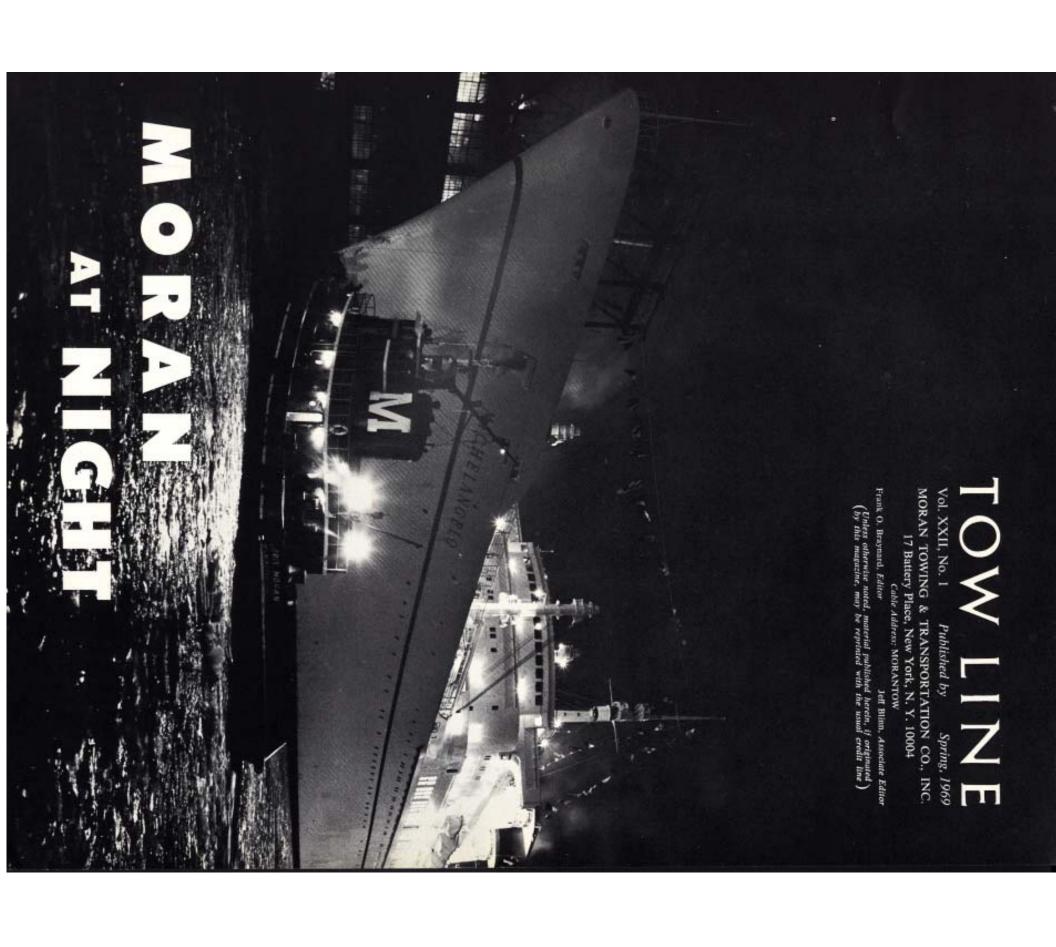


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Moran's European Agents.

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MORAN AT NIGHT

by Jeff Blinn

chael Moran and Joan Moran, docked

the port of New York. As one Moran tugman put it, "We turn on our run-ning lights at dusk and get on with the next job."

The tide, not the hour determines when a tanker moves to berth or when ARKNESS HOLDS NO MYSTERY for the hard working Moran tug.

The setting sun has no influence on the kind of work she is assigned in

a dump barge goes to sea. And neither tide nor hour governs the docking or sailing of most other ships. The great ocean liners are still ladies whatever time they choose to come and go.

Always exciting is the departure of a luxurious passenger liner with the bustle, the sparkling sounds and the air of expectation. Add a curtain of darkblack shadow of a tanker erasing the shoreside lights along her silent course. looming bow of a liner caught in silhouette against the city's glow; the big. place—the dark bulk of an oil barge slowly moving to refuel a ship; the But night does add a dramatic cloak to what in daylight seems common-

grand opera of an outsized scale. the roar of engines and you have the deep basso of the ship's horn and ness and thousands of glittering lights dancing on a stage of swirling water, the shrill toots of the tug whistle over

ings of three of Italian Line's great sibly never to be repeated. night was a unique performance, pos-Pier 90, North River in the space of a North Atlantic passenger liners at A recent series of dockings and sail-

white against the dark sky. The Michsmokestacks stood spotlighted stark elangelo glowed incandescently on the north side, her brightness meeting the Raffaello's two latticework-covered On the south side of the pier the

> side of Cunard's Pier 92. from across the wide slip at the south Leonardo da Vinci's softer radiance

docking berth on the north of Pier 90 task at 0740 hours. elangelo. Pilot Captain Robert Niclto make room for the incoming Michbeen breasted across the slip from her morning. The Leonardo da Vinci had and Marie Moran had finished the son using tugs Cathleen E. Moran The stage had been set since early

ploying tugs Elizabeth Moran, Pilot Captain Arthur Biagi, em-

> 90 under an adverse tide at 0820 the Raffaello on the south side of Pier with heavy ice in the slip. tended from the liner's bridge wing point, he related, he could touch the ice away from the stringpiece. At one hours. Coming in, he held her sharp able, a condition not always possible faello's many gangways were oper-In her final position all of the Rafpier's superstructure with his arm exbow close to the pier scooping the

ardo da Vinci, clearing the berth but preventing her snug fit against Pier 92. With less space in which to maan's powerful tugs: Elizabeth Moran. pushed across the slip by the Leon-Captain Biagi called for three of Morstrength of the ebb and a stiff wind The Michelangelo was next. By now the tide had turned to the the pier corner but by alternately ap-plying and reducing the push of the neuver, the Michelangelo was landed blew from north northeast. Again tremendous both on the ship and on ward in the slip. The pressure was tug and ship power to ease her forcalled for extreme caution in applying on the corner of Pier 90 well forward Most of the heavy ice had been Teresa Moran and Julia C. Moran of the normal pivoting point. This



CONGRATULATIONS - ITALIAN LINE

by Frank O. Braynard

and sail within 24 hours from the same pier. Jeff Blinn describes how our around a unique operating problem that was met and conquered by the Italian Line. Three of their four North Atlantic passenger liners had to load tugs assisted in this immensely difficult operation. This article gives the story from the standpoint of the Italian Line. UR MORAN AT NIGHT story, carried on the preceding page, is built

the now-defunct World Telegram. the Italian Line's public relations agency, Infoplan International. It was a pleasure to work with Allan on this story. For years he covered ships for former columnist, Allan Keller, who issued a press statement about it for The whole operation was likened to a giant chess game by well-known

and the towing company. . . "The Italian Line plays a giant variation of a chess game tomorrow," his story began, "with huge superliners as the chess-pieces. Tugboats will shuttle table has been drawn up by the line ing hopscotch but there will be no guesswork. A minute-by-minute timethe Raffaello, Michelangelo and Leonardo da Vinci around like children play-

He arrived at Pier 90, Hudson River, Dr. Ottone Empoldi, General Manager was scheduled. January 31 well before the first move at 5:30 A.M. on the morning of of the Italian Line in North America. Supervising the entire operation was

sponsibility to arrange the many deager, Dr. Guido Steidler, was another tails between main office and pier. key man on the scene. It was his re-The Italian Line's Operations Man-

Dr. Empoldi's right hand man on

with pride, was quick to give credit ing veteran of sea service under sail ian Line. A surprisingly young-lookto our head dispatcher, Nick Bodloit was. Captain Tettamanzi, we note ence to his task, and a Herculean one measure of enthusiasm and experi-Captain Tettamanzi brought a full Pier 90 was husky Captain Enrico Tettamanzi, Port Captain of the Ital-

A combination of circumstances

vic, and to our tug captains and the pilots—but this is another story.

pier within one 24-hour period. all three great liners from the same however, forced the schedule to be A series of labor difficulties in Italy, office there was no jam-up of sailings. nally laid out in the Italian Line home configuration of great liners. As origijuggled until it was necessary to sail

ing cruise, a highlight of the line's much more than the ordinary baggage involved this would have been diffinary supervisory personnel. Had three ordimeant that all the baggage and all the accomplished so that this feat would have to be problem, the fates worked things out seven stops en route. This outstandclassic cruise to Rio de Janeiro, with and provisions. To climax the series, to seven Caribbean ports, meaning on a short cruise, a seven-dayer to St. Thomas and St. Maarten. The on cruises. The Raffaello was going because all three ships were sailing to be hand carried by Italian Line York's worst longshore strike. the Michelangelo was to make her heading out for an 181/2-day cruise cult enough, but it was doubly hard stores for the three ships would have Leonardo da Vinci, however, was As if this were not enough of a trans-Atlantic voyages in the face of been New





AQUATIC FARMING

(Editor's Note: The growing interest in oceanog-raphy and underwater sciences has made our company eager to investigate all areas of this vast new field of study. One interesting newsletter that comes into our office is called "Littoral Lines," It is published by the Battelle Memorial Institute, of the Columbus Laboratories, of Columbus, Ohio, We reprint below major portions of an article by Dr. John W. Blake on undersea agri-culture.)

culture and animal husbandry. plants and animals under controlled dedicated to fulfilling critical protein conditions using techniques of agriaquaculture, the rearing of aquatic food needs of the world's population.

One portion of this effort has been in N RECENT years, much research and development effort has been

which active cultivation is now under milkfish, trout, plaice, sole, and sevsels, carp, mullet, catfish, Tilapia, of marine organisms including shrimp, ments of the population and characdeveloped countries, specific require-Malaya, Philippines, Singapore, Spain, way include some African countries, eral varieties of seaweed. Places in crabs, abalone, oysters, cockles, muscouraged utilization of a great variety teristics of the local climate have encluding both developed and under-Taiwan, and the United States. Great Britain, Israel, Japan, Australia, China, Denmark, France, In various parts of the world, in-Java,

ditions; and percent of produce that is comparisons must specify such things aquatic environment for food producment are required before one can actually protein. feed input; environmental control contaken into consideration. Meaningful lar acreage of pasture. However, comland-based activities. The quantity of to be derived from the use of the properly judge the maximum benefits unless only the common factors are parisons of these yields may be risky that which can be produced on a simipond may be significantly larger than protein that can be produced in a tion as opposed to the more familiar as source, type, cost, and quantity of Further experiments and develop-

larger amounts of high-grade animal protein per unit of surface area than vironment to produce significantly be explained by some basic biological can the fertile, dry-land habitat may The capability of the aquatic en-

quire the necessities. most important of these factors is that fish need expend little energy to acwaste products away. This means that provides oxygen to the fish and carries At the same time, the flow of water of acres of water flowing past them. have access to the food in thousands a one-acre tidal pond or river section. fish, on one acre of sea bottom or in

aquatic organisms is that their body tal structures. lessens the need for heavy-duty skelethe medium in which they live. This densities are very similar to that of

devoted to the production of edible centage of the food intake and metatissue. bolic energy of aquatic organisms is As a consequence, a greater per-

such stresses . . . and less energy diraised in water of the same salt conis that the organisms do not need to as the temperature of their marine Most aquatic animals are "cold blooded," which means that their need to divert any energy to overcome live in estaurine areas, they do not tion, as can many of the species which changes in internal salt concentrafluids. If centration as that of their own body body temperature. Also, some marine expend energy to maintain a constant environment. The advantage of this body temperatures will be the same estuarine organisms may organisms can tolerate are "cold be

cultivation are many, and one may version means more edible tissue. well wonder why this field has not Obviously, the advantages of fish

and ecological factors. Perhaps the quirements for optimum growth with scientific literature in many fields of conducted, results are often unpubproblem involves matching species reis only fair to say that there are cerbeen developed more extensively. It lished or scattered throughout the appropriate experiments have been problem is that even though many different areas of the world. Another the environmental factors found tain inherent difficulties. The largest

Another factor advantageous to

endeavor in many countries and lan-

These and other problems are be of oyster larvae to various abnormal Clapp Laboratories, Duxbury, Massaing remedied on an experimental environmental factors such as dredgsites of power plants; and reactions commercial seaweeds; genetic and/or stances by Quahogs; evaluation of ture. Experiments are now being conwhich impinge directly on aquaculchusetts, are working in several areas economic factors are also under way tions of biological, engineering, and experiments and pilot-plant evaluarelating available data. Laboratory scale. Trained biologists are now corteristics of shellfish and seaweeds at abundance, and physiological charactions of oyster-boring snails; growth, adaptive differences between populative, the sea urchin, which feeds on this oyster enemy and its close relaas a biological control measure against bacteria isolated from "sick" starfish tion of pharmacologically active subadult growth of oysters; the producducted on breeding, larva-culture, and Investigators at Battelle's William F.



ITALIAN LINE ...

(Continued from page 5)

cruising schedule for the whole year, encompassed twenty-seven days.

Thirty tons of stores had to be loaded aboard the Raffaello for her one-week cruise. Every ounce had to be hand carried by Captain Tettamanzi and his staff.

For the Rio cruise there was a list of stores that would stagger even the largest shoreside hotel. Thirty-two tons of fresh vegetables and fruit alone had to be put aboard the Michelangelo. She needed eight tons of meat, four tons of dairy products, three of fish, one of poultry and another of milk. A vast assortment of liquors, beers and soda had to go aboard, not to mention party favors, prizes for children's games, pre-release movies and so on down the line.

In all, 115 tons of provisions and supplies were loaded aboard the Michelangelo by Captain Tettamanzi's well-organized group of office supervisors in fourteen hours. Under the original schedule this would have been done by longshoremen over a leisurely two-day turn-around period.

However, we are getting ahead of our story.

Hours of careful planning and scheduling preceded action. Captain Tettamanzi's six years' experience on Pier 90 stood him in good stead.

Knowing that muscle as well as gray matter would be desperately needed to do what had to be done, Captain Tettamanzi organized a group of sixteen fellow Italian Line supervisors. These he called his "assault team." He also had about ten others, older men and men with less push, on whom he would call for help during peak day-time loading or unloading activity.

He worked out his schedule to the minute, taking into account such things as tides, unusually bad ice conditions, problems of debarking passengers and the frightening prospect of hordes of visitors who would naturally wish to see their friends and relatives off on the three sailings.

Captain Tettamanzi and his assault

team knew they would have to be up very early Friday morning. Deciding to take no chances on reaching the pier the following morning because of traffic or adverse weather, they slept overnight aboard the Leonardo da Vinci.

The Camels Are Coming

The hull lines of the Leonardo da Vinci are quite different from those of the longer and sleeker Michelangelo. When the tugs arrived and moved the former away from the north side of Pier 90 to the south side of Pier 92, Captain Tettamanzi's problem was to move the two camels, or fenders the Leonardo had used, to a different spot to fit the hull contours of the larger Michelangelo.

had to be moved closer together. Done by manpower, this was no easy job, and it had to be accomplished tapering bow and stern portions, they They are used to keep the liner's hull being without her own power. course, before the Leonardo had beup against the pier and were conabout a foot showing above water and manzi's team had to let go her lines gun her move to 92, Captain Tettational ice floes from the river. Of tinually being supplemented by addimasses of ice that had packed tightly made more difficult by the jagged into the stream, and again after the again after the Michelangelo went out 110 feet of straight hull between the But, since the Michelangelo has only six feet below the surface. With the Each weighs 25 tons and floats with from coming too close to the pier. She was a dead ship for this move, Leonardo they were widely spaced. Leonardo sailed. Each move was Ocean liner camels are huge things

The sun rose at 7:01 that morning and moments later the superbly sleek clipper stem of the white-hulled Raffaello jutted out past the dark outline of the outer end of Pier 88, home of the French Line's proud France. Hundreds of early bird visitors crowded the waiting room at the West Street end of Pier 90 as the beautiful liner slipped silently into her south side berth. Piles of stores waited the dropping of service gangways. Oil barges arrived alongside to refuel the great ship. Passengers trouped reluctantly off, their voyage at an end.

ding Caribbean cruise were parking their the cars at garages on 50th Street and c of watching the docking operation. They slept would not be permitted to board until day 3:30 p.m. for their midnight sailing.

Although the day before had been

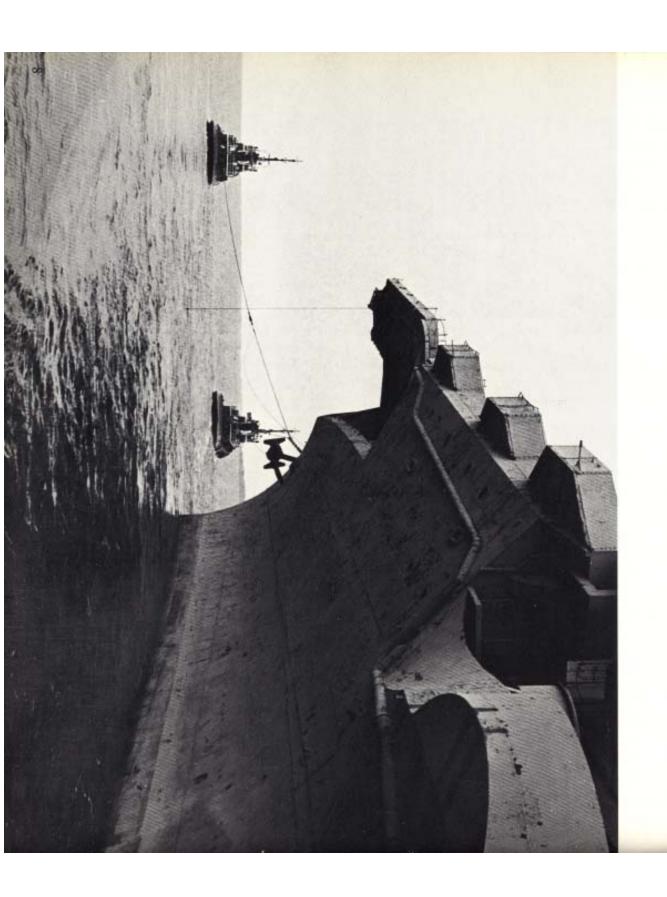
Although the day before had been rainy, with heavy winds and dark skies, Friday turned out to be a bright mid-winter day. The sun shone and the ice glistened. It was a wonderful day for photography and Jeff Blinn was ready and waiting.

catch 123,000 gross tons of gleaming stacks that marked her as one of the abcard, but not all, for she had to be time within six hours, the Upper Bay way for the Leonardo. moved out into the Hudson to make bean cruise supplies debarked and a portion of her Caribactive liners in the world. Passengers including the third and fourth largest white Italian passenger ships in a row, tographer would have been able to north side of Pier 90. An aerial phoule and was promptly berthed on the Michelangelo arrived right on sched-Italian Line's twin flagships. liner with two cage-mast type smokeplayed host to a sleek white super-Noon came and, for the second were

This happened on schedule twelve hours after "Operation Chessboard" began. It was already dark as the 800-foot liner was edged out into the stream and manuevered sternfirst up to her anchorage five blocks north of the last big Hudson River pier. This area used to be known as "Battleship Row," and in 1964 it was used to anchor the splendid fleet of all masted sail training ships that visited New York under the auspices of the Operation Sail project.

Despite strong west northwest winds that had come up at sundown, and despite increasingly difficult ice conditions, the *Leonardo da Vinci* was moved across the slip to her previous berth on the north side of Pier 90. Thirty minutes after her lines were secured, the first of her happy passengers trouped aboard. Captain Tettamanzi's men lugged their bags aboard after them. This group of hardy staffers were well into their second 12 hours of manual labor. Half the team had been permitted four hours of sleep from 1 P.M. to

(Continued on page 16)



NEWSWORTHY — Moran tug Forra, shown at the left, a pr Senator from New York. The K mission ship taking food and m Tarawa being towed to the s Jean Moran. This photo came t Steamboat Company.

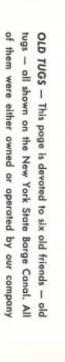
NEWSWORTHY — Moran tugs assisted (without charge) the Biafra Christmas relief ship Forra, shown at the left, a project directed by Senator Charles E. Goodell, United States Senator from New York. The Kerr Steamship Co. donated its services as agents for the mercy mission ship taking food and medical supplies to beleaguered Biafra. Below is the old carrier Tarawa being towed to the scrap yard by two of our tugs, the Elizabeth Moran and the Jean Moran. This photo came to us through the courtesy of Luther M. Goff, of the Providence









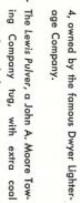


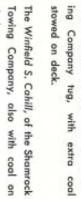


at one time or another.

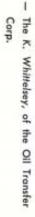
- The Christine Olsen, shown with her stalwart crew on deck, was used by Moran as a shifting tug.

- The James F. Dwyer, near lock Number

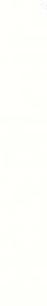




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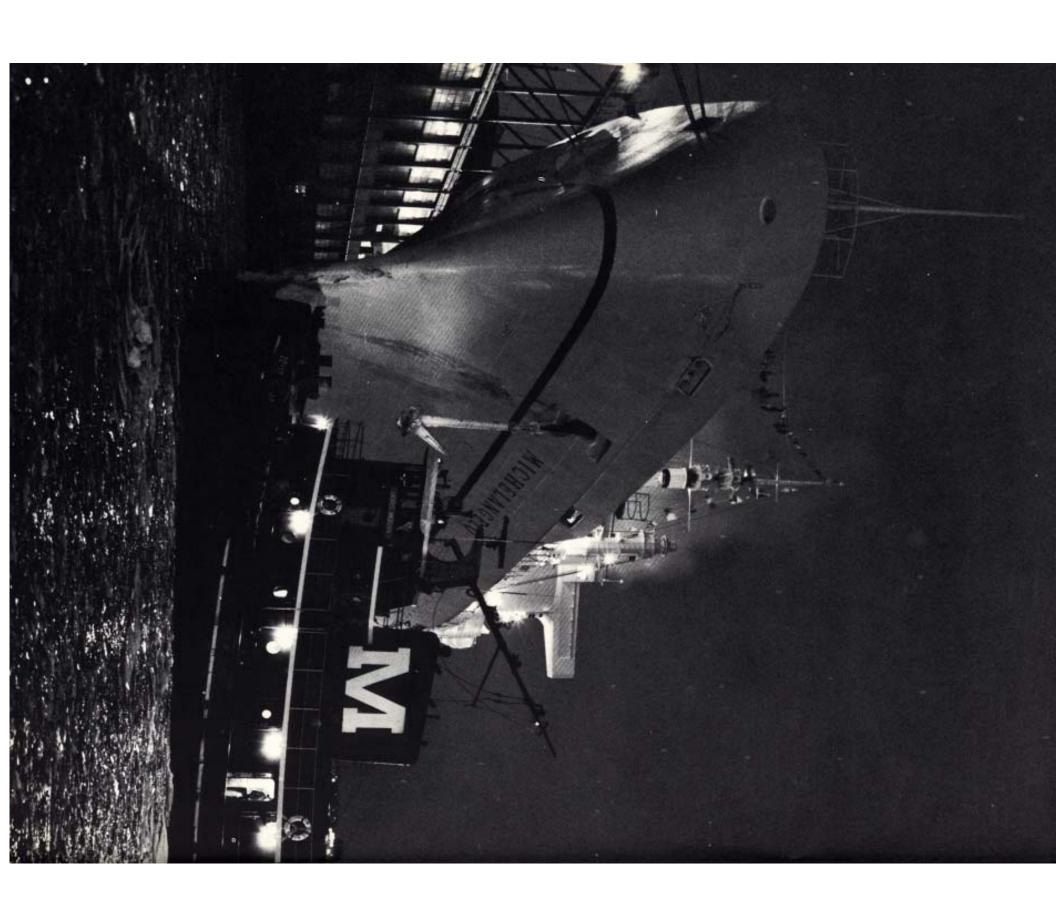


The Mary O'Riorden, of the Wilson Towing Line.

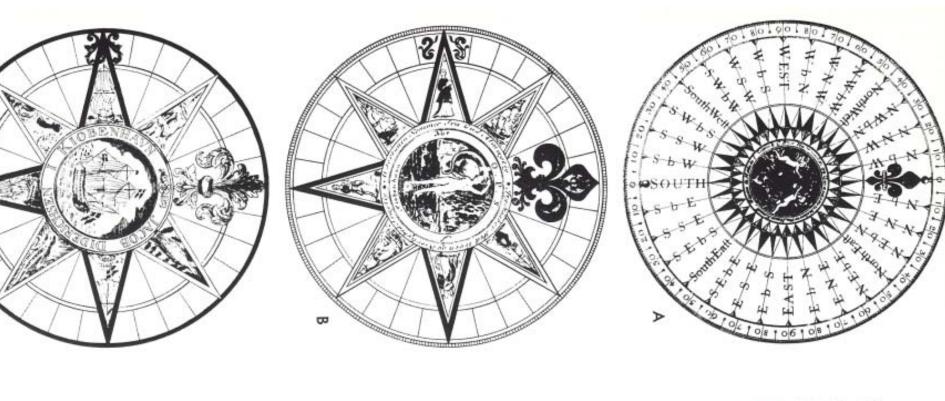












THE COMPASS ROSE

(Editor's Note: We are indebted to Editor John Gordon of OCEAN, an impressive publication of The Ocean Steam Ship Group of England, and the National Maritime Museum at Greenwich for permission to use the material and illustrations published in the July 1968 issue of OCEAN for the following article.)

PRIOR TO THE DEVELOPMENT of the compass the early Mediterranean navigators were guided by the rosa ventorum or wind rose. The rose marked off on their charts the eight principal winds upon which they were dependent. Probably named in the Temple of the Winds in Athens they were: tramontana, greco, levanter, sirocco, ostro, africo (or libeccio), ponente and maestro.

The north point on some of the oldest wind roses was marked with a T (for tramontana), a broad arrowhead or a spear which eventually developed into a fleur-delis by 1492—still almost universal on the compass rose. To mark the east the L (of levanter) became a cross and continued as an elaborate ornamentation on British compass cards well into the 19th century.

The earliest recorded reference to the compass was made by Fancesco da Buti, the Dante commentator. In 1380 he wrote that 'sailors use a compass at the middle of which is pivoted a wheel of light paper, on which wheel the needle is fixed and the star (wind rose) painted.' The naming of the intermediate subdivisions of 32 points or rhumbs is probably the work of Flemish navigators and was recognized as early as 1391, in the time of Geoffrey Chaucer. Some roses were divided into degrees for more accurate reading in the 17th century but the division into 360 degrees, from north clockwise, waited until the 19th century.

Early in the 20th century the first gyro-compass was fitted aboard ship and the design of the rose used on magnetic compass cards was adapted to the new navigational instrument.



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- A. Azimuth composs card by Seller & Price, circa 1710. With fleur-de-lis at north the cardinal and half cardinal points are spelled out and the remaining rhumbs abbreviated.
- Danish overhead compass card of the 18th century. Cardinal points contain figures of Faith, Hope and Charity while half cardinal points contain sailing ships and the center a historical scene.

Β.

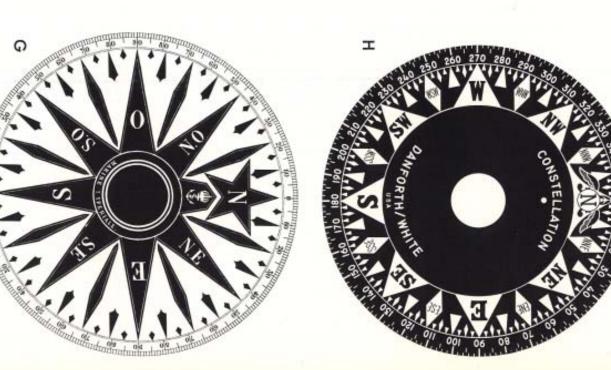
Overhead compass card of the 18th century by J. Diderichsen. In color this decorated card has its points represented by sailing ships and figures of a bird, a reptile, a fish and a bull.

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- D. Card for Dr. Gowin Knight's steering compass made by George Adams, circa 1790. On a black background this card has fleur-de-lis at each half-point, a decorated east point and an elaborate fleur-de-lis at north.
- Captain Charles Phillips' compass card, 1825. North is decorated with a small leaf but the remaining points and half-points are simple white triangles on black background.

im

- F. Royal Navy compass card, circa 1830. North is indicated with an unusually ornamental fleur-de-lis with a crown directly below. East is also decorated.
- G. French Navy card of about 1869 with star and letter at north and crown over anchor directly below. Note the absence of fleur-de-lis and the rose divided into degrees for more accurate reading.
- H. Constellation compass card of the 20th century supplied by New York Nautical Instrument & Service Corp. of 140 West Broadway. North is still ornamented but the rose is divided into 360 degrees from north clockwise. White figures on black background have been found to be most visible. This type of card enjoys wide acceptance and is used on all gyro and magnetic compasses of Moran tugs.





VHF-FM MARINE RADIO by Leo G. Sands and G. Geoffrey Tellet. Published by Chilton Book Company, 401 Walnut St., Philadelphia, Pa. 19106. Price: \$6.50 (paper) and \$7.95 (cloth).

ing the book's preparation, and Jack Richards is pictured on p. 120 as a typical tugboat dispatcher using VHF marine equipment. If you look closely, you can also see Diana Lembo, Captain Goodwin's secretary, in the picture. Chapters on the VHF Marine Band, on VHF marine radioas "a handy guide for users, sellers, manufacturers, and maintainers of VHF/ illustrated, with a good index and a vast operators of limited and public coast sta-tions." It is that, and more. Attractively THIS WORK is described in its preface coast stations and operations are included pleasure to co-operate with the authors durmented work on a new and important field of communications. It was our company's appendix, it is a thorough and well-docu-FM marine radio telephones, as well as power supplies and sources open the study. Other sections on antenna systems, walkietalkies, boat installation and maintenance, on transmitters, receivers, original sources.

REATIONAL BOATING GUIDE, CG-340, Published June 1966, Price: 45 cents ington, D.C. from Superintendent of Documents, Wash-OFFICIAL U.S. COAST GUARD REC-EATIONAL BOATING GUIDE, CG-

have. It is 94 pages long and contains countless diagrams, drawings and photoabout and all recreational boat users should "This second revision is intended to pro-vide boatmen with a handy booklet setgraphs. The introduction by Commandant Willard J. Smith sets the tone of the work: boating. ting forth the basic principles of safe THIS IS ANOTHER government ment that all mariners should know docu-

ERS, second edition, by H. Philip Spratt. Published by Brown, Son & Ferguson, Ltd., Glasgow, 1967. Price: 21 shillings. TRANSATLANTIC PADDLE STEAM-

mendous strides. It was almost entirely steam power as applied through paddle wheels. The story of paddle-wheeled Attween 1819, when the Savannah made her historic voyage, and 1861, steam power on the oceans of the world gained treto cross the Atlantic-the Savannah. Befor river and canal power. However, with-Their idea was that steam would be used pletely alien to the earliest inventors of THE CONCEPT of using steam on the powered vessel had been built specifically in 12 years of Fulton's Clermont a steamoceans of the world was almost comengines for marine propulsion.

plates reproducing contemporary prints and models. A set of six tables of historical and technical data on the vessels covered, their machinery and service is carried as an appendix. There is a fine bibliography and an outstanding index. The work is based almost entirely on lantic liners is told with high scholarship in this new edition of H. Philip Spratt's internationally known work, first pub-lished in 1951. Mr. Spratt is associated Some 37 famous vessels are described in detail in this volume. There are nine with the noted Science Museum in London.

INTERNATIONAL SHIPPING SHIPBUILDING DIRECTORY, 196 Published in America by John de Graff, Inc., 34 Oak Avenue, Tuckahoe, N.Y., 10707, 1968. Price: \$20.00.

A N ENGLISH oriented publication, this A 831-page, oversize volume is the 18th edition of a work issued by the noted "Shipping World & Shipbuilder" magazine. Large sections are included on shipowners. changing face of many established organi-zations." Some remarkable compendiums and index features are in the latter portion of the book. in the developing countries, as well as the on engine builders and on towage and salvage contractors. The book reflects the on shipbuilders and ship repair companies "upsurge of new undertakings, especially

QUESTIONS ABOUT THE OCEAN, by Harold W. Dubach and Robert W. Taber. Published by the U.S. Navy Oceanographic Office, Washington, D.C. 20390 (National Oceanographic Data Center—General Series), publication G-31, 1967. Price: 55 cents.

about the world's oceans, and it does just that, even listing 100 typical queries in the form of a four-page opening table of con-tents. Many diagrams and snappy line tents. Many diagrams and snappy line drawings, a bibliography at the end of each chapter and light, sprightly writing make this work a worthy contribution to THIS WELL-illustrated 121-page book-let, paper-covered, is a delightful change from the run-of-the-mill government docu-ment. It is designed to answer questions the maritime bookshelf.

SAILING SMALL BOATS by Harvey Weiss. Published by William R. Scott, Inc., N.Y., 1967. Price: \$3.95.

will find the answer on page 9 of this beautifully-illustrated and entertaining big-little book. There are tug pictures in it too, and photographs of barges and even one tanker picture. There are also fine sketches of an ancient Greek warship and all sorts of other illustrative drawings. There is a exactly why wood really does float. W boats floated before reading this fas-cinating new book about boats and sailing Did you ever really try to understand exactly why wood really does float. You You will enjoy this book. fine section on the vocabulary of boats. WE NEVER REALLY KNEW why

1968.

Titanic.

his University, presents fifty-seven reports by explorers in all areas of the world. Pub-lished originally in the 19th and 20th Centuries, these one and two volume sets are ing source material writings. The editor, Mr. McManis, of Teachers College, Columnewly-published reprints of some outstandan advertisement. We do this because the will review a pamphlet that is essentially and bound in cloth. reprinted with plates, maps and illustrations T IS NOT often that a book review page in question describes a series of

Annotated Bibliography, 3rd edition; second supplement, 1966-1968, by Robert Greenhalgh Albion. Published by the Marine Historical Association, Inc., Mystic, Conn., 1968. NAVAL & MARITIME HISTORY, An

Mystic Scaport. through this bibliography, which can be obtained for a modest fee by writing to fessor Albion is doing much to document the written record of our merchant marine and shipping in the world of writing. Pro-THIS LIST OF new maritime publications is evidence of the great interest in ships

THE FLEET OF LEIF HOEGH & CO. A.S., Oslo 1928-1968, by Michael Crowdy, F.R.S.A., published by the World Ship So-1968. Romney Ave., Kendal, England,

a great shipping enterprise. It has an index, and contains outstanding photographs of Höegh Line ships. It can be obtained at a modest price by applying to the World trated little booklet is a splendid study W Ship Society, this 64-page, well-illus-

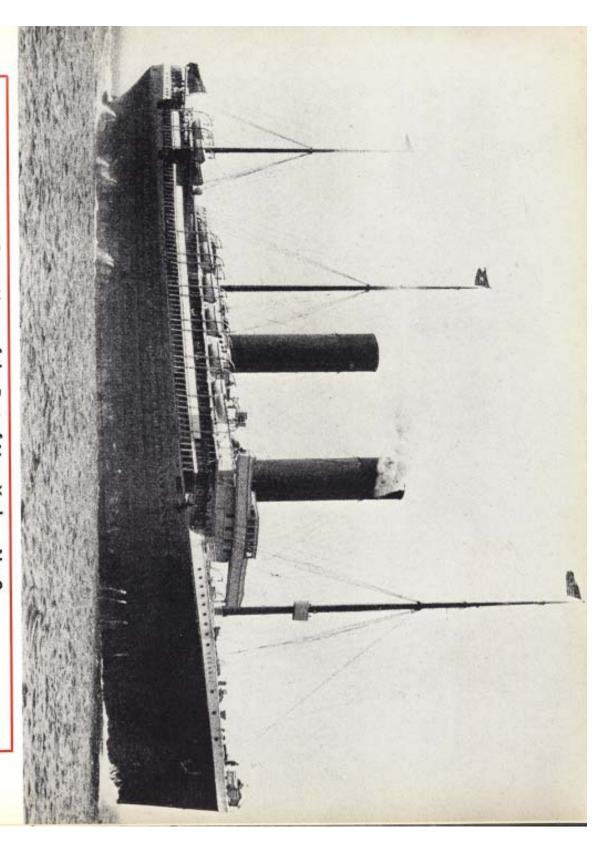
Stanton Anderson. Sold by H. Kneeland Whiting, 63 Neverly Rd., Upper Montclair, N.J. Price: \$2.25. Drawings by Samuel Ward Stanton, pub-lished in 1968 by his daughter Elizabeth

prepared. Professor Robert G. Albion con-tributes an introduction. The water colors A little book of drawings and paintings by the renowned Samuel Ward Stanton is the seventh in a series of booklets issued by lished a revised edition of her booklet en-titled LONG ISLAND SOUND AND NARRAGANSETT BAY STEAM VESmost useful pictorial sources in America's maritime history, Mrs. Anderson also pubdrawings of ships that were well known in SELS, which contains many Stanton pen are outstanding and represent one of the Mrs. Anderson. Another on tugs is being New York. The artist Stanton died on the and the pen and ink sketches by Stanton

EXPEDITIONS AND EXPLORA-

TIONS, A Series of Facsimile Reprints, Edited by Douglas R. McManis, Published by Greenwood Press, Inc., 211 East 43rd St., N.Y., N.Y. 10017, 1968. Prices range from \$7.75 to \$150.00.

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Great Liners of the Port of New York — No. 9

MAIDEN ARRIVAL — The Oceanic, White Star Line flagship and largest ocean liner in the world, arrives on her maiden voyage in September, 1899. She is shown saluting the pilotboat off Sandy Hook, a wisp of steam showing that her booming whistle will soon be heard. This vessel, like Home Line's flagship of today, was carrying on a great tradition. White Star's first Oceanic, of 1870, was the first liner to have best accommodations amidships instead of at the stern. Today's Oceanic, one of the most successful cruise liners ever built, uses the part of New York regularly and was the first major vessel to have her stack aft. The 1899 Oceanic was the first ship to exceed the Great Eastern in length. As shown above, her most prominent features were her tremendously tall smoke-stacks. They were widely separated so that the dining saloon could be placed between them without being broken into by stack uptakes. Built by Harland & Wolff, Belfast, she was 685 feet long, with a beam of 68 feet, and is said to have been the last large liner built to the full 10 to 1 ratio of beam to length. She was lost in 1914, being stranded on Foula in the Shetland Islands. While small compared to today's luxury liners, no passenger ship has exceeded her in dignity and distinguished silhouette.

THE NIGHT BOAT by George W. Hilton, published by Howell-North, Berkeley, Cal., 1968. Price: \$12.50.

THIS IS A STUDY of the American over-night steamboat. It contains outstanding photographs and other illustrated material, including page decorations and ship sketches by Samuel Ward Stanton. The work covers steamboats up and down America's Atlantic and Pacific coasts, on the Great Lakes and includes a small section on boats of the Western Rivers. The author is a Professor of Economics at UCLA and in 1964 headed President Johnson's task force on transportation policy.

ARCTIC ROVINGS by Daniel Weston Hall; edited by Jerome Beatty, Jr., illustrated by William Hogarth, Published in 1968 by Young Scott Books, 333 Ave. of the Americas, New York, Price; \$3.95.

THIS IS A GRAND LITTLE BOOK, relating the adventures of a New Bedford boy both on a whaler and in the Siberian wilderness in the days just before the Civil War. Most attractively illustrated by Bill Hogarth, designer of your editor's book called A TUGMAN'S SKETCHBOOK, the 144-page volume presents an intimate look at the lot of the American merchant sailor of a century ago.

BALEIA! BALEIA!—Whale Hunters of the Azores, by Bernard Venables. Published by Alfred A. Knopf, New York, 1969. Price: \$6.95.

THE NOTED ENGLISH artist, Bernard Venables, has always been interested in the unusual and the out-of-the way. He selected small boat whaling out of the Azores as his subject, went there and lived, and recorded his experiences in a lively text and with more than 40 fine line drawings. It's a good book, and one that will open many eyes. The writing has a strong touch of philosophy in it. The local comes alive. The people are real.

MORAN AT NIGHT...

(Continued from page 4)

Michelangelo was safely nosed to her berth at 1315 hours. two tugs on her starboard quarter, the

more hundreds were arriving to sail ashore from the Michelangelo and moved in and out. Hundreds of pasas soon as the three ships were made sengers had debarked from the Raftrucks, Pier 90 was a beehive. hundreds more were coming private cars and pedestrians Taxis,

three great liners were moved eight lous tapestry an essential ingredient in this meticutimes by Moran tugs by team work, Between dawn and midnight the

Bodlovic, in almost constant touch with Captain Tettamanzi, the Italian undocked precisely on schedule. pilot or tug captain missed a cue as the liners were docked, shifted and Line's Port Captain, made sure no Moran's Chief Dispatcher Nick

flood. Biagi again boarded the Michelan-gelo, this time to move her to a Hud-son River anchorage. The Leonardo 90. By now the tide had turned to uled the first to sail. At dusk, Captain passengers on the north side of Pier da Vinci must have room to embark The Leonardo da Vinci was sched-

counteract the northwest wind, the chor at 1800 hours. beth Moran on her port quarter to tain Carlo Kirn, Master of the Mich-Michelangelo dropped her port anher bow as rudder and with the Elizaanchorage. With the Doris Moran on 905-foot liner the mile upriver to the elangelo. They decided to back the Captain Biagi conferred with Cap-

side of Pier 90, finishing at 1945 breasted the liner back to the north Leonardo da Vinci and, with tugs Joan Moran and Teresa Moran, Captain Nielson again boarded the

and mooring lines throughout the day personnel handled all baggage, stores shoremen were on strike, Italian Line humming with activity. As the long-Under floodlights Pier 90 continued

each step of the operation were bear-ing fruit. Captain Tettamanzi and his standing achievement are described crew moved with clockwork preci-Tow Line.) The hours of planning in a separate story in this issue of SION.

other assignments to assist. Caribbean. The tugs Joan Moran and Teresa Moran had returned from in the river to begin her cruise to the had the Leonardo da Vinci shaped-up pilot, Moran Captain Ole Ericksen, By 2245 hours, another veteran

Michelangelo was ordered to return. camels - floating fenders against which a ship rests at dockside-the zi's men time to readjust the heavy After allowing Captain Tettaman-

offset the wind, backing the Michelangelo downriver and docking her for the second time in less than eleven ebbed, turned the Michelangelo at midnight. hours. The time was 0005-just after used the Joan Moran as rudder on the bow and the Elizabeth Moran to ing the previous move, Captain Biagi anchorage stern downriver. Revers-The invincible tide had again

angelo assisted. on crossing the pier and boarded and Captain Biagi walked off the Michelhad just used on docking the Michelangelo, greeted Captain Tettamanzi ready for sea. With no loss of time gangway on the Raffaello; she was men were holding one remaining sailed the Raffaello. The two tugs he On the opposite side of Pier 90

of the night and sailed later that day provisions and supplies the remainder long cruise to Rio de Janeiro, took on with Pilot Captain John Jorgensen in Cathleen E. Moran. charge of tugs Marie Moran and The Michelangelo, scheduled for a

miscellaneous craft had to be moved ladies upstaging one another. the spectacle of three great Italian other activity could hold a candle to orchestra seat at the Street on Manhattan's West Side, no But, from the vantage point of an about the harbor that night by Moran. as well as a host of other vessels and Other passenger liners and tankers foot of 50th

and night. (The details of this out-ITALIAN LINE ...

(Continued from page 7)

5 P.M. and the others would turn in from 5 P.M. to 2 A.M., but Captain l'ettamanzi never slept. Virtually on the button of 10 P.M.,

the Leonardo da Vinci sailed. Simultaneously the brilliantly-illu-

gone, was accomplished—and on schedule! hours of Saturday morning was a aboard the Michelangelo in the early sailed, but handloading over 100 tons team. The were the hardest hours of all for was loaded for her long cruise. These at midnight and all through the night slip between 90 and 92. She tied up cally moved down river and into the minated Michelangelo was majestibackbreaking task. Nevertheless, Captain Tettamanzi's weary assault and at 12:40 the Raffaello Leonardo da Vinci was

cruise began with gay streamers and openings to wave a last goodby. thousands of visitors lining the pier ready and the giantesses. Shortly after I P.M. all was ready and the "Carnival at Rio" ing the last of the three white Italian At 9 A.M. passengers began board-

2 P.M. Dr. Empoldi finally left Pier 90 at

around maneuvers in the history of refuse that had to be cleaned up after the three gala sailings. But into do. There were six containers of turned longshoremen, still had work the Port of New York. most difficult and complicated turncomplished, on schedule, one of the was done. They had successfully acwardly they all knew their big job teams of shoreside office Captain Tettamanzi and his gallant personnel,

OLD FRIEND

operated by the Bulgarian gov-Named Varna, she is owned and liner serving Mediterranean ports. is now a white-hulled cruising NE of the port's old friends, the former Ocean Monarch



their effort to remain anonymous. T IS OUR EXPERIENCE that tugmen have an uncommon resistance to public recognition, especially in print. The greater their skill, the stronger

Of that taciturn nature is our Captain John Jorgensen, Master of tug Marie Moran and one of the top docking pilots in the Port of New York. He has successfully avoided more than casual mention in our 9/10 Times Roman type of Tow Line-up to

built upon solid experience. joyed the highest respect of Moran's served over decades. His reputation is the confidence of scores of shipmasters men afloat and ashore and has merited Captain Jorgensen has long enthis point.

Jergensen soon became an able-bodied seaman and sought to extend his then operating from a pier on the Brooklyn. The famous old Bull Line, birthplace in the Bay Ridge section of ship trading in the Caribbean, John 16-year-old youngster. Assigned to a Brooklyn shore, signed-on the eager blood that called him to sea from his It may have been his Norwegian

off-shore Master, Captain Hugo Kroll. Moran as a deckhand on the steamdeep-water experience all the while for exotic ports, gaining valuable tug Joseph N. Moran under the able great tankers John satisfied a hunger Line and on Standard Oil Company's The first day of 1936 he joined With the globe-circling Wilhelmsen

tug M. Moran for about a year place as deckhand on his father's tug.) Marine Superintendent, took John's (Captain Earl Allen, our present in Captain Roy Allen on the steam harbor John found a valuable teacher was busy with coastal assignments. To learn more about New York

now deceased. At that time this tug

Captain Jimmy Wheeler on the Helen gensen who began steering under In 1939 it was Captain John Jor-

docking and undocking army transports and other ships which crowded New York's anchorages. tain John Jorgensen who was busy B. Moran. By 1942 it was Pilot Cap-

ers grow tremendously in size, tugs gensen has seen cargoships and tank-In the ensuing years Captain Jor-

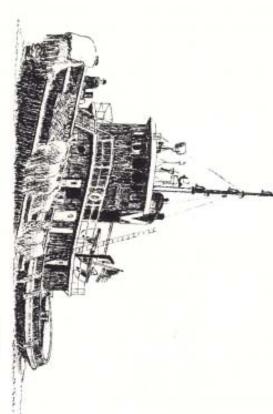
> multiply in horsepower and great areas of the port improved. With a constant inflow of new ships to the and holds no dim view of the future. adds to his storehouse of experience Port of New York, he almost daily



CAPT. JOHN JORGENSEN

tracted to the Moose Peak, shown at the end of a row of laid up tugs because he saw, still on her large stack, the familiar black "M" of Moran. Our company operated virtually to the noted steamship author, Alexander Crosby Brown, for this fine shot. He was atthe entire V4 fleet during World War II. They are in the James River, Virginia, National Defense Reserve Fleet. We are indebted STILL SHOWING — Of the great fleet of V4 type tugs built during World War II, com-paratively few are still in operation. Many are laid up, as are the three shown here.





GOOD WORK — A fine pen and ink sketch of our sturdy Barbara Moran by William H. Ewen, Jr., marine artist. Here is a drawing by a man who really looks at what he is sketching. So aften tug paintings and drawings are simply reflections of what the artist thinks a tug looks like and such impressions are made without patience or knowledge. Bill sent this "rather rough sketch" in to us by way of saying thanks for Tow Line. Our thanks to you, Bill.

a Dauntless tug, he came to Moran with our company. uncle, Peter Thorsen, was then a mate and has been with us ever since. His was then a boy of 20 only one year separated from his home in Arendal, he started 40 years ago aboard Cap-After a few months as a deck hand on Norway. He had come over aboard year was 1929, and Captain Thorsen tain Roy Allen's Marion Moran. The master and pilot is Captain Lars Olav Thorsen. Now with the Doris Moran, 1,100 other Norwegian immigrants. ANOTHER VETERAN Moran tug famous old Bergensfjord with

MYSTERY PICTURE — About 40 years ago this shot was made on the New York State Woterway barge canal. Can any of our readers tell us who that young stalwart is? We will give only one hint: he is still with the Moran organization.





CAPT. L. O. THORSEN

The Marion Moran, a coal burner, was typical of the tugs of those days. She was of only 700 horsepower, but she did her job and for six years young Thorsen decked aboard her. In 1935 he won his license and moved up to mate on the New York State Waterways system.

"I know every lock and every turn by heart," he said with a smile. His first canaler was the *John Nichols*, one of the old John A. Moore fleet acquired by Moran. He served aboard dozens of tugs during his five seasons on the historic old waterway route.

In 1940 he returned to the harbor and has remained here.

He started piloting in 1944 and learned to enjoy this challenge of greater responsibility.

A quiet and serious man, Captain Thorsen has by no means led a quiet life. His harbor career has been highlighted by two outstanding rescue achievements.

The first took place on June 25, 1958. The Swedish dry cargo vessel Nebraska collided with the oil tanker

The first took place on June 25, 1958. The Swedish dry cargo vessel Nebraska collided with the oil tanker Empress Bay in the East River. The tanker sank and the Nebraska started to burn. Captain Thorsen boarded the blazing ship and piloted her down around the Battery to an emergency landing at Pier 26, North River. Here the City's firemen were able to reach her and the conflagration was quickly brought under control.

For this heroic deed, Captain Thorsen received, a plaque from the City's Department of Marine and Aviation.

Fire again brought this quiet and unassuming man to the public's attention. It was December 19, 1960 and he was again on the East River. A tragic explosion rocked the monster aircraft carrier Constellation at her fitting out berth in the New York Naval Shipyard, at Brooklyn. (See Tow Line for March 1961, p. 6)

Raging flames forced some 250 shipyard workers to the very after portion of the flight deck of the carrier and many might have perished had it not been for the Carol Moran and Captain Thorsen. He brought his tug up to the square stern of the Constellation. His valiant crew hoisted several ladders to the trapped men and they all piled aboard. How the tug accommodated them all is hard to imagine, but she did.

Although Captain Thorsen and his crew were hailed by many different commendations, letters and verbal bouquets the one he remembered best was a simple telephone call of heartfelt thanks and best wishes from one of those rescued. The call came on Christmas Eve.

