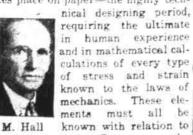
Launching Of Ships Are Always Accompanied By Tense Moments

These Events Listed As Among have to combat the element in which The Most Spectacular Occurances

Ship construction can well be divided into three stages. The first takes place on paper-the highly technical designing period,



their effect upon the They must all be compensated for. and brought to a point of perfect bal-

It has no fixed foundation from which in the earth that they are almost a part of it. Only the airplane approaches the ship of the sea in its problems of design because they both

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they function with forces and resistances self-contained.

The second stage is that of the actual building of the ship's structure, and is the assembling of the many parts, fabricated to the plans furnished by the designers, into one complete unit. This is not so very differrequiring the ultimate ent from any other construction project requiring skilled labor and constant inspection, and does not present the element of human risk which follows in the wake of skyscraper or suspension bridge building. This construction stage extends to, and continues after the launching of the ship. The third stage is perhaps the most

wonderful of all; it is certainly the size and type and power of the ship, most spectacular; requiring as it does a combination of both the most careful calculations, and skilled construcion and execution. This is the act It must always be remembered that of the transferring of thousands of a ship is a detached body, subject to tons of dead weight, from the foundaunbelievable buffeting and sudden tion upon which it has been built, to shock upon any part of its structure. the element in and upon which it has been created to fulfill its destiny. This to derive solid support, or strength third stage is the launching period, of resistance.. The automobile, and actually accomplished in a few secthe railroad train contacts the ground onds of time, but which has been or a fixed solid substance upon which visioned, planned for, and worried to move. The skyscraper building and about since before the first keel plate the bridge are so firmly fixed to and was placed in position. The engineer's line, and the placing of the keel blocks to this line were the first steps in the construction part of the launching. If this transfer of the hull does not succeed down to the very last minute detail, all the design and construction work could be wasted. A stoppage of the sliding ways, a failure of a part of the ways or cradle to carry their burden, might result in injury to the ship running into hun- and is supported on the bottom and dreds of thousands of dollars, or even sides by a forest of timber props. The the almost total loss of the entire actual launching preparations start or of the navy, and the big bosses of

> as it is. The third method of launchsite shore before she could be stopped. say and how he would say it. There Those who read the accounts of the wouldn't be a ship's carpenter left launching of the Queen Mary will re- along the banks of the "Jim River." member how she was snubbed by she was clear of the ways.

> the upper face, with the flange on the cradle and sliding ways are shored up out board edge. They extend the and the bottom of the sliding or a distance apart governed by the mixture of tallow, oil, and soft soap. beam of the ship and the shape of When the "Mauretania" was launchthe bottom. At the stern they ex- ed the ways were coated with 32,536 tend into the water to a distance of pounds of tallow, 113 gallons of train about the depth the bow will re- oil, and 3,464 pounds of soft soapquire to become water-borne. Upon This carried her 16,800 tons smoothly the surface of the ground ways, which into the water. Here is where the remain stationary, rests the sliding weatherman comes into the picture ways their edges inside of the flange once more. For either the entire sucof the ground ways; thus being held

> > CENTS

PER MILE

Spring Sign-Mack Goes South



Perennial harbinger of spring is the trip south for Connie Mack, manager of the Philadelphia Athletics. The veteran baseballer is pictured shortly before leaving Philadelphia, holding his grandson, Frank Cunningham, III. Mrs. Mack is with him.

the bottom, thus fitting into the the waters edge to support the ship's groove of the former. fore foot when she tips the bow down

The ship herself is now resting with the lifting of the stern by the with her keel upon the keel blocks, water. with hauling of the sections of the the yard. This stand is flag draped As has been said before, ships are sliding ways into position upon the usually launched stern first, altho ground ways-when the sections are some foreign yards and perhaps oc- butt strapped together. Next at casionally here, launch bow first. bow and stern "cradles" are built upon band turns out in uniform to enter-Stern launching is considered the the sliding ways to support the ends tain the guests during the final presafest as the enormous weight of the of the ship. When these ends are liminaries. Just before high tide the stern casting and the rudder, tail "fine," that is, sharp and narrow over order is quietly passed to "wedge up." shafting and propellers are quickly some distance from the bow and water borne in place of being carried stern, these cradles are very large

throughout the length of the ways, structures, built of wooden baulks, and exerting the terrific downward their upper edges fitting the contour crushing force produced by the lifting of the hull, but in no way attached of the ship's length from the angle to it. These cradles are made to of slide to the horizontal of surface withstand an enormous load, espewater support. For the space of a cially the ones at the bow, for if they second or so the leverage of several should disintergrate when almost the hundred feet of ship is extended in entire weight of the ship is supportjust one spot, that of the cradle at ed by them at the last second or so the bow and the part of the ground of the launch the ship's bow would ways beneath it. Speed of passage fall to the ground and the "grief" alone saves them from being crushed around the yard would be something to tell one's grandchildren about. ing is broadside. This is only used Those of us who know our townsman when the body of water upon which Homer Ferguson, president of the the ship must be launched is so nar- Newport News Shipbuilding and Dry row that she would run into the oppo- Dock Co., can imagine what he would

The next step in getting ready for drags and anchors in order to turn the launch is to transfer the weight her away from the shore the moment of the ship from the keel blocks to the launching ways. A small space has As soon as possible after bottom been left between the cradle and the construction of the hull is finished the launching ways for the insertion of ground ways are placed in position, wooden wedges. Similar spacing has These consist of heavy timbers bolted been left between the packing and together and resemble a massive ways at points along the ship's botwooden railroad track, rabbeted on tom. Just before launching day the full length of the ship, a track on launching ways, and the tops of the each side of the center keel blocks at ground ways, are given a coat of a

> cess or failure of the launch depends upon knowing to a safe margin just what the temperature will be at the time of the actual launch. For if the mixture of tallow, oil and soap is made thick enough to be serviceable at 50 degrees, and it suddenly got to 80 or a 100, the mixture will become so thin it will let the sliding ways squeeze it out .. If it turns cold the mixture becomes too thick and will bind. Either of these conditions will postpone a launch, for if attempted it would result in a "hang fire," and much effort and expense would be necessary before the ship would reach

the water. After the ways are dressed, they are brought into contact again with the grease between. The launching ways are secured at the bow to the ground ways by heavy chains. The ship is released by sawing through these chained timbers outside, or next to the ship, from the chain binding. The more modern way, especially with the launching of large ships, is to hold the two sets of ways together with massive steel triggers forced into slots in the launching ways, and held there under enormous hydraulic pressure, ready to be re leased at the moment of launch Heavy timbers are wedged against the after ends of the launching ways,

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in line on the track during their pass- and remain there until the last moage with the ship. In some yards ment. Usually a short length of these ground ways are built concave greased ways is placed on the ground while the sliding ways are convex on between the other ground ways at

> At the bow a launching stand is built for the occupancy of the sponsor and the ship is strung with signal flags and house flags of the line to which she belongs. The ship yard

Gangs of men armed with battering shrill voiced compressed air w at the wedges and for several minutes At the wave of a hand. at the wedges and for setting the sound of the blows they deliver is spoken order of "Let her sign heard from one end of the ship to last few strokes of other. As soon as the hull is lifted or the hiss of the from the keel blocks they are remov- releasing the triggers, an ed. Next, the shores and spurs which preceptible movement of have supported the ship during the felt rather than building are knocked out. The shores though she suddenly against the outboard end of the slid- of her freedom the ing ways are now removed, and the life, and starts down the ship resting in the cradles, which in the first real movement turn are supported by the chained more or less accurate ends of the sliding way timber, or with the bottle of wine the triggers underneath. At the ends bits, and good wine splashes of the sliding ways under the bows the steel plates, and a hydraulic rams have been placed to give the ways a kick if it is necessary to thus start her. But so accu-drown out the sponsors. sary to thus start her. But a drown out the sponsors, "I de rately has everything been calculated thee City of Waynesvole, and that it is very seldom these rams are luck sail with you. needed. They are just put there in

Over the bow has been hung a ribbon bedecked bottle of wine, or water, ing from the friction tortured encased in a net to prevent flying glass. The sponsor, a lady selected ture glides down to the sea. by the owners or the Navy Depart- river, upon the first leg of he ment, always carrying a huge bunch ages to the ends of the earthof roses, takes her place under the splash she hits the water, and overhanging bow with the suspended a few seconds she is safely after bottle of wine in her hand. All is rounded by the cradle and la quiet under and around the ship ways which have floated free, while the inspectors make a final tugs take hold of her, and my check to see that all is clear. Its high ship is pulled to the fitting on water and a signal is sounded from for the finishing touches. The the inspector-"All is clear." If the work will be told of next week ways are to be sawed loose, the order is now given to "cut," and carpenters with cross cut saws start to work. would you think for an instant If the sliding ways are held by hy- some nation, with plenty of draulic triggers, a "stand by" and ships, would attack nice little

Gangs of men armed with battering a "stand clear" signal is blom

launching party. Cheers my

With ever quickening step, smoke and some times flame, between the ways, the massive

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