houses of this former rather exclusive residential section. The location is convenient to the many large new garages erected within the last two years in Broadway above Times Square and is handy to various lines of transportation, including the subway and elevated systems. The front of the building is of white granite and glazed with white brick with ornamental relief of green and white terra-cotta, offering a strong contrast to surrounding buildings.

The novel problem of combining luxurious club quarters with ample garage facilities was happily solved by architect Ernest Flagg, of New York, with the result that the new home of the club offers its members ample quarters for business and social gatherings and unsurpassed facilities for the storage and care and repair of their cars under the same roof. The total cost of the new home is approximately \$750,000. of which \$250,000 was paid for the plot of eight city building lots, \$350,000 for the building, and about \$150,000 for furnishings. Every precaution has been taken to guard against destruction or damage by fire. The building has a steel skeleton sheathed with concrete, and all the floors are of tile and cement. No wood or inflammable material is used, with the exception of a limited quantity for wainscoting, doors, and windows. Fire doors sheathed with steel close automatically by gravity in case of fire, shutting off the garage floors from the club rooms and the stairways and elevator shafts. All the gasoline used is stored in an underground tank outside of the building, and no cars are allowed to have their tanks filled on any floor but the first or ground floor garage. Lubricating oil is stored in a brick vault on this floor and kept under lock. Small portable tanks mounted on wheels and fitted with self-registering pumps are used for filling the fuel tanks of the cars, thereby avoiding the carrying of gasoline about in open buckets. On every column in the five garage floors is hung a pail of sand. and chemical fire extinguishers are liberally disposed about the garage, to be used in case of emergency.

Describing in detail the interior arrangement and furnishing of the club house, it is most natural to begin with the ground floor, which opens directly off the sidewalk and has three runways for cars into the garage. The first door on the east is the members' entrance, of chiseled white granite. Through a double set of heavy oak doors this gives into a lobby extending the full depth of the building, with a grand stairway of white marble at the rear. The lobby is finished in white, with marble floor, and is furnished with carved oak settees and chairs upholstered in red leather. Several doors open from the lobby on the left, the first one communicating with the garage superintendent's office and the garage. The second admits to the members' locker room, where there are one hundred private fireproof metal lockers where clothing and other articles can be kept under lock and key. This room has a mezzanine gallery all of steel, and there is not a thing in it that can burn.

Back of the grand stairway and beneath the first landing is a new departure with the club—the ladies' room. This is small, but is exquisitely finished with white enamel and gray silk-covered walls and furnished in polished French walnut.

Extending almost the full length of the front of the second floor is the great assembly hall rising through two floors. The walls are white, wainscoted to a height of eight feet with dark oak. Six great windows admit floods of southern sunlight and opposite the windows an equal number of great double oak doors open into the big grill room and onto the stair landing. Parquetry is laid on the cement floor, and massive carved oak tables and chairs upholstered in red leather furnish the assembly room. At the east end a huge marble fireplace is flanked by black oak bookcases with adjustable shelves, in which are found bound volumes of the leading motoring periodicals of the world, and automobile literature. At the opposite end of the hall is a carved oak balcony for an orchestra, with a door behind opening onto a rear stairway.

The grill room has a cement floor in terra-cotta and

mense windows by day and electric lights at night. Although the city Edison current is at present employed, the plans contemplate the generation of current by steam-turbine-driven dynamos in the basement as soon as the machinery can be set up. Communication between all of the storage floors and the basement and roof is established by two electric elevators at the west end of the building, each 10 by 18 feet and having a lifting capacity of four tons. Flanking these are cement stairways for chauffeurs and servants. On each of the storage floors is a small room for chauffeurs, fitted with clock, telephone, tables, and chairs.

An interesting feature of the garage on the main floor is the three huge doors that admit cars. Instead of swinging back into the garage, where they would always be in the way and obstruct the light, they rise, folding inward horizontally at the middle. Directly back of one of these doors is a Fairbanks scales for weighing cars. To the east of the entrances is the superintendent's office, from which a small window looks into the garage, and on the west is the checker's room, where there are wire pigeonholes for letters and messages for the chauffeurs. The two big automobile elevator shafts are located also on the east end of the room, and in front of them is a large iron turntable for turning cars with their backs toward the elevators. On this floor are also washing stands and running water for cleaning the bodies and running gears of the machines.

The top floor is reserved for a repair department and testing room. Here is to be provided every facility for making repairs that can be found in the most up-to-date metropolitan garage. Delays in securing shipments have prevented installation of the necessary machinery as yet, but the purchases include one small and three large lathes, one milling machine, universal grinder, shaper, radial drill press, portable crane, and emery grinders, buffers, and similar small machine tools, all driven by individual electric motors. When complete, the repair shop will provide employment for a score of machinists, with space for any reasonable expansion.

In the center of the floor, cut off by wire screens reaching to the ceiling, is the testing department. This is to be equipped with a dynamometer and everything needed for measuring the power developed by motors and that delivered at the wheels of a machine, showing efficiency, friction losses, fuel consumption per horse-power-hour, taking indicator diagrams, etc. Of necessity an adequate description of this plant, to which the technical committee of the club is giving considerable attention, must be postponed to some future time.

The growth of the Automobile Club of America has been rapid since its organization in 1899, eight years ago. The active membership limit has been raised a number of times until it stands at one thousand. This limit has now been reached, and besides three hundred additional associate members, there is always a waiting list of applicants for membership. Among the members are many wealthy and socially prominent men. The club has international relations with all the national automobile clubs of Europe, and occupies the position of a national organization in this country, conducting national motor car exhibitions and technical contests, such as endurance, consumption, and commercial vehicle trials. It takes an active and influential part in affairs, having been in large measure instrumental in securing the passage of the \$50,000,000 road improvement act in the New York legislature, in promoting touring at home and abroad and in securing reasonable and just laws affecting the use of motor cars on the public streets and roads.

THE INTERNATIONAL FLEET AT JAMESTOWN.

Unquestionably, the most imposing feature connected with the opening of the Jamestown Exposition will be the long lines of battleships and cruisers which have gathered from all parts of the world to do honor to the occasion. Of the sixty-seven ships of importance there assembled, twenty-seven fly the flags of friendly foreign nations, and the balance that of the United States. The visiting ships, including those of the larger size, are mainly of the armored-cruiser type, the remainder consisting of protected cruisers and a few gunboats. To be exact, there are fourteen armored vessels, nine protected cruisers, two gunboats, and one training ship, In the main, the foreign ships are representative of the latest ideas of the powers in the various types that are represented, up to the close of what might be called the ante-bellum period, or the period which closed with the Russo-Japanese war. There is, however, one important exception, which is furnished by the Japanese themselves, who have sent over, in that splendid ship the "Tsukuba," the first of a new typethe cruiser-battleship-to make its appearance on the high seas.

evidence of the fact that they are now entirely independent of foreign ship-builders, and are capable of turning out in two years a first~ ass warship—hull, engines, guns, and equipment—completely of Japanese manufacture.

The "Tsukuba" is of about the same displacement as the British "Good Hope" and the United States "Washington." But she has one inch more belt armor than the British, and two inches more than the American ship. She carries twenty-eight guns, as against eighteen on the "Good Hope" and twenty on the "Washington." Of these, the main armament consists of four 12-inch guns, as against two 9.2-inch on the "Good Hope," and four 10-inch on the "Washington." The intermediate battery on the Japanese ship consists of twelve 6-inch and twelve 4.7-inch guns, while the British and American cruisers carry each sixteen 6-inch guns. The "Tsukuba," therefore, shows a great superiority of gun power, even over the "Washington": but her speed of 21 knots is a knot and a third less than that of the "Washington," and 3½ knots less than the maximum speed of the "Good Hope." The next in importance of the foreign cruisers is the armored cruiser "Victor Hugo," representing the French republic, an exceedingly handsome vessel of 12,416 tons and 22 knots speed. She carries a 634-inch belt, and her battery of four 7.6-inch and sixteen 6.4-inch guns is carried mainly in turrets with a high command of from 26 to 34 feet above the sea. The 7.6's are protected by 8 inches of armor, and twelve of the 6.4's are mounted in pairs on the broadside in double turrets protected by 5½ inches of armor; the other 6.4's are mounted on the main deck in four casemates with four inches of protection.

In point of size and speed, though not of gun power, the next largest ships are the three armored cruisers "Hampshire," "Roxburgh, and "Argyll" of the British squadron, vessels of 10,850 tons displacement, and from $22\frac{1}{2}$ to $23\frac{1}{2}$ knots speed, carrying four 7.5-inch guns in single turrets with 6 inches protection, and six 6-inch guns in casemates. The belt protection is 6 inches in thickness.

Next in importance are the twin armored cruisers "Roon" and "Yorck" of the German navy, each of 9,050 tons displacement and over 21 knots speed. The armament, which is much heavier than that of the "Hampshire" class above mentioned, consists of four 8.2-inch guns carried in two turrets with 6 inches of armor protection, and ten 6-inch guns mounted in a central redoubt of 4-inch armor, and so placed that four of them can be fired dead ahead and four dead astern. The only point in these fine ships which can be criticised is the belt, which has a maximum thickness of only 4 inches.

France, Italy, and Austria each contribute an armored cruiser of between 7.000 and 8.000 tons displacement, France sending the "Kleber" of 7,700 tons and 21.27 knots, carrying eight 6.4-inch in 4-inch armor turrets and four 4-inch guns in casemates. The "Kleber" has the characteristic high freeboard of the French cruisers; but like the German "Roon" and "Yorck" her armor is over-light, the belt being but 4 inches in thickness. Of about the same displacement is the Italian "Varese," of 20.2 knots, mounting one 10-inch and two 8-inch in 6-inch-armor turrets, and fourteen 6-inch in 6-inch casemates or behind shields. The belt armor is 6 inches in thickness. The "Varese" is a type of cruiser designed and built in Italy, which combines, if we except the "Tsukuba" and "Indomitable," more fighting efficiency on a given displacement than any armored cruiser that we know of. Two of this type went successfully through the Japanese war as part of the Japanese armored cruiser division. Another armored cruiser of the same displacement is the "Sankt Georg," of the Austrian navy, mounting two 9.4-inch guns, five 7.6-inch, and four 6-inch. The belt is $6\frac{1}{2}$ inches in thickness, the barbettes have 8 inches, and the side of the lower deck has 8¼ inches of Krupp armor protection. These features, combined with a speed of 21 knots, render this vessel an exceedingly fine example of the armored cruiser class. A little smaller than the "Sankt Georg"

white, white columns and ceiling, and the walls are covered with neutral-toned green wall paper. The tables and chairs are of black-stained weathered oak. As at present furnished, the room seats one hundred. On the north side are five large leaded glass windows, while there are three big skylights. The directors' room opens from one side of the grill room, while the butler's serving room and kitchen are on the other side

On the mezzanine floor above is the secretary's office and the general office, where the large volume of clerical work is done and where the touring and road-map department is quartered. A richly furnished pool and billiard room is also located on this same floor, having an entrance from the head of a flight of stairs rising from the landing at the top of the grand stairway. The ceiling is enameled white, while the walls are papered in dark red, and a rich, red carpet covers the floor. The tables and chairs are of mahogany.

Four of the floors above this are devoted to the storage of cars. They are admirably lighted by imIn dispatching the "Tsukuba" to Jamestown, the Japanese have at once paid us the compliment of sending their latest and finest ship of its class, and, incldentally, they present to the United States concrete is the "Kaiser Karl VI.," also of the Austrian navy. Her speed is 20.8 knots, and she mounts two 9.4-inch and eight 6-inch guns; the belt being 8½ inches, and the barbette armor 8 inches in thickness.

The protected cruiser class is represented by the two German ships "Bremen," of 3,250 tons and 23.2 knots speed, and "Niobe," of 2,650 tons and 21.6 knots speed, each vessel mounting ten 4.1-inch guns and several 1-pounders. Japan has the "Chitose," a protected cruiser of 4,760 tons and 22.5 knots, mounting two 8-inch and ten 4.7-inch guns. Italy sends the protected cruisers "Etruria" and "Fieramosca," the former of 2,280 tons and 19.8 knots, carrying two 6-inch and eight 4.7-inch guns, and the latter of 3.600 tons and 17.5 knots, mounting a somewhat out-of-date battery of two 10-inch and six 6-inch guns. Austria sends: the protected cruiser "Aspern," of 2,437 tons and 20knots, and a battery of eight 4.7-inch guns. Sweden is: represented by the armored cruiser "Fylgya," of 4,060 tons and 21.5 knots, mounting eight 6-inch guns in

THE INTERNATIONAL FLEET AT JAMESTOWN. VISITING SHIPS.

a	D. 4
Grea t	Britain.

Great Britain.							
Name.	Type.	Tors Disp.ace-	Frants -	Guns.	Armor.		
Good Hope Hampshire Roxburgh Argyll	Armored cruiser "	10,850 10,850 10,850	22.4 23 6 22 3	29.2-in.; 166-in. 47.5-in.; 66-in.	Belt6in.; bte,6in.		
Victor Hugo Kleber Jean Bart*	Armored cruiser	12,416	ance. 22.00 21.2	47.6-in.; 166.4in. 86.4-in.; 44-in.	tur.8 in.		
* Designated, but wrecked, another cruiser to be sent.							
Boon	Anmonod		many		Doit in .		
Roon	Armored cruiser	1		48.2-in.; 106-in.	tur. 6 in.		
Yorck Bremen	Protected	9,050 ; 3,250	21.4 23 2	104.1-in.; 101-pdr	Deck 2 in.		
Niobe Panther	cruiser G u nboat.		21 6 13.5	104.1-in.; 141-pdr 24.1-in.; 61-pdr.	Deck 2 in.		
_			ıpa n .				
Tsukuba Chitose	Cruiser battleship Protected cruiser	14,000 4,760	21 00 22.5	4 12-in.; 12 6-in.; 12 4.7-in. 2 8-in.; 10 4.7-in.	Belt 7 in.; tur. 9 in. Deck 4] in.		
Varian	Aumound		aly.	11 10 in . 9 9 in .	Dolt f in a		
Varese	cruiser	2,280		1 10-iu.; 2 8-in.; 146-in. 26-in.; 84.7-in.	bte. 6 in.		
Etruria	Protected cruiser.				Deck 1 in.		
Fieramosca			17.5 stria.	2 10-in.; 6 6-in.	DOCK 2 III.		
Sankt Georg	Armored			2 9.4-in.; 57.5-in.;	Belt 6} in.;		
Kaiser Karl VI	cruiser "	6,325	20.8	4 6-in. 2 9.4-in.; 8 6-in.	tur. 8 in. Belt 8¼ in.;		
Aspern	Protected	2,437	20.0	84.7-in.; 123-pdr	bt e. 8 in.		
-	cruiser		1.	j			
Fylgya	Armored cruiser	4,060		86-in.; 146- p dr	Belt 4 in.; tur. 5 in.		
Chi'e. Baquebano Training 2,330 13.7 4.7-in.; 2 12-par							
Buenos Ayres.	Protected cruiser		nti na 24.0	2 8-in.; 46-in.;	Deck 5 in.; sh'lds 44 in.		
Dom Carlos Protected 4,100 22.0 4 6-in.; 8 4.7-in. Deck 43 in.							
Riacheulo.	Rattleshin I		azil. 116 5 1	49,4-in.; 6 4.7-in	Rolt. 11 in •		
Barroso	Protected	3,45 0			tur. 10 in. Deck $3\frac{1}{2}$ in.		
Tamoyo	cruiser Gunboat			24.7-in.: 6 6-pdr.			
UNITED STATES BATTLESHIP FLEET,							
Minnesota	-		9	12 7-in.	Belt 9 in.; tur. 12 in. and 8 in.		
Vermont Louisiana	1. N	16,000 1 6 ,000	18.3 18.8		Belt 11 in.; tur. 12 in,		
Connecticut Georgia	1. 1.	14,948	18 5 19 2	4 12-in.; 8 8-in.; 12 6-in.	and 8 in.		
Nebraska New Jersey		14,948 14,948	19.0 19.2	64 67	54 15		
Rhode Island Virginia		14,948 14,948	19.0	51 51			
Maine		12,500	18.0	4 12-in.; 16 6-in.	Belt 11 in.; tur. 12 in.		
Missouri •hio Alabama	 		18.1 17.8 17.0	" 4 13-in.; 14 6-in.	Belt 131 in.;		
Illinois Kearsarge			17 4	4 13-in.; 4 8-in.;	tur 13in. Belt 13‡in.;		
Kentucky Iowa		11,5 20 11,346	169	14 5-in. 4 12-in.; 8 8-in.;	tur. 13 in. and 8 in. Belt 14 in.;		
Indiana		10,288		4 4-in.	tur. 12in. and 8 in. Belt 18 in.;		
		-		46-in.	tur. 13 in. and 8 in.		
Washington	Armored cruiser				Belt 5 in.; tur.10in.		
Tennessee	••	14,500	22 1		<u> </u>		

turrets protected by 5 inches of armor. Chile sends the training ship "Baquebano," and Argentina the protected cruiser "Buenos Ayres," of 4,500 tons, 24 knots, and battery of two 8-inch, four 6-inch, and six 4.7-inch guns. Portugal is represented by the "Dom Carlos," a protected cruiser of 4,100 tons and 22 knots and a battery of four 6-inch and eight 4.7-inch guns. Brazil sends the old-time battleship "Riachuelo," of 5,700 tons and 16.5 knots, carrying four 9.4-inch and six 4.7-inch guns. She also is represented by the "Barroso," a protected cruiser of 3,450 tons and 20.5 knots,

Scientific American

of an individual ship, whose design differs widely on some point or other from every existing class.

The most modern and formidable vessels of the fleet are the four battleships of the "Minnesota" class, all of 16,000 tons, 18.5 knots, and mounting four 12-inch, eight 8-inch, and twelve 7-inch. In the "Connecticut" and "Louisiana" the belt is 11 inches, in the "Minnesota" and "Vermont" 9 inches; otherwise, the ships are practically identical. The 12-inch guns have 12 inches and the 8-inch guns 8 inches of protection, all of them being mounted in pairs in turrets. Of the world's battleships designed before the late war, these are the most powerful and best protected—with the possible exception of the Japanese "Kashima" and "Katori," whose four 10-inch guns will by some authorities be preferred to eight 8-inch.

The five battleships of the "Georgia" class (see table) are about 1,000 tons smaller than the "Minnesota," but have a knot more speed. The main armament is identical; the intermediate battery consisting of 6-inch in place of 7-inch guns. The only objection that can be urged against these ships is that they carry the superposed turret—whereby a heavier allround 8-inch fire is obtained at the expense of undesirable complication of mechanism and no little interference of gun fire. Nevertheless, these are most powerful ships, with good freeboard, high speed, generous coal supply, and a battery heavier than that of any foreign vessels of their date.

The nine battleships above mentioned are by far the most formidable portion of the fleet at Hampton Roads. In the "Maine," "Miscouri," and "Ohio," of 12,500 tons and 18 knots, we have ships of excellent protection but considerably less battery power, 8-inch guns being excluded. The "Alabama" and "Illinois," of a knot less speed and 1.000 tons less displacement, carry the 13-inch gun in their main battery, and like the "Maine" class have no intermediate 8-inch guns; but all of these five ships are heavier armed than battleships of the same date built for foreign navies. The "Kearsarge" and "Kentucky," of the same displacement, and about the same speed as the "Alabama," carry four 8-inch guns in superposed turrets above the 13-inch guns, and they have a numerous broadside battery of 5-inch. The "Iowa," of about the same displacement and speed as the "Kentucky," is an improved "Indiana," being about 1,000 tons larger with a knot and a half more speed, and a similar disposition of the battery, the 12-inch taking the place of the 13-inch gun.

In the armored cruisers "Washington" and "Tennessee," of 14,500 tons displacement, the United States navy possesses two ships which but for the overlight waterline armor could be reckoned as of the cruiserbattleship type which promises to have something of a vogue during the next few years. They carry a battery of four 10-inch guns in turrets protected with 10 inches of armor, and they have a broadside battery of sixteen 50-caliber 6-inch guns. Limitation of space prevents any detailed reference to the less important United States ships at the review.

Taken altogether, the United States fleet at Hampton Roads is a subject for just pride on the part of American citizens; and when the President steams down the lines and receives the salvos of the visiting and home fleets, it will be a subject of well-earned gratification to him that his efforts for a long period of years should have contributed to the production of so many and such formidable warships as will fly the American flag on that day.

OPENING OF THE JAMESTOWN EXPOSITION. BY JOHN T. MAGINNIS.

What has been described as a "Colonial city beautiful" has sprung up at Sewell's Point, on the shores of Hampton Roads, and Norfolk and the towns that nestle about this historic body of water are prepared to receive the throngs of visitors to the Jamestown Exposition, which will be formally opened by President Roosevelt April 26. The exposition is in celebration of the tercentenary of the establishment of the first permanent English settlement in the new world at Jamestown.

Jamestown, a peninsula when Capt. John Smith

monument to the Indian princess whose interposition gave to the English their lasting foothold. The A. P. V. A. has erected a statue of Capt. John Smith.

The opening date of the exposition commemorates that on which Capt. Newport's little fleet, consisting of the "Susan Constant," the "Discovery," and the "Godspeed" anchored off Cape Henry, named after the then Prince of Wales, when Capt. John Smith, going ashore, planted a cross near where is now the Cape Henry lighthouse.

The ceremonies incident to the formal opening on April 26, 1907, will be under the direction of Mr. G. T. Shepperd, secretary of the Jamestown Exposition Company, assisted by Lieut. P. H. Bagby, Sixth United States Infantry, military *attaché* to the department of the secretary. At sunrise on April 26 the Norfolk Light Infantry Blues, stationed at the exposition grounds, will fire a salute of 300 guns to usher in the commencement of the day opening the Jamestown Tercentennial Exposition in commemoration of the 300th anniversary of the first English settlement of America.

Upon the arrival of President Roosevelt on the "Mayflower" in Hampton Roads, a salute will be fired by the United States and foreign warships there assembled. When the President arrives at the exposition grounds, he will be met at the end of the government pier by a military escort, and will be saluted by the United States artillery stationed on the exposition grounds. Promptly at the hour of 11:30 the President will be escorted to the reviewing stand, on Lee's Parade in the rear of the auditorium building, where appropriate exercises will take place. When the President presses the gold button, putting the machinery of the exposition in motion, it will at the same time be a signal for a salute to the Union by the United States and foreign ships assembled in Hampton Roads and by the garrison at Fort Monroe. At the conclusion of the salute all of the bands on the exposition grounds will play "The Star-Spangled Banner," at which time all the troops will salute the national anthem by presenting arms, and the entire concourse will be expected to uncover during the rendition of this ceremonial.

Immediately thereafter the President of the United States will review the parade, of which Major-General Frederick D. Grant, of the United States Army, will be grand marshal, which will be participated in by the soldiers and sailors of the United States and foreign governments and the National Guard. The governors of the different States of the Union having military representation in the parade will participate therein, together with their staffs. Boxes on the reviewing stand will be assigned to those governors who do not participate in the parade.

On the reviewing stand, besides the President of the United States and his cabinet, will be the diplomatic corps, officers and directors of the Jamestown Exposition Company, members of Congress, the general assembly of Virginia, United States and State commissioners to the Jamestown Tercentennial Exposition, official representatives from the different States of the Union, officers of the various historical societies and the mayors and municipal officers of the cities surrounding Hampton Roads.

The various States have responded liberally to calls for appropriations and some twenty-five have buildings on the grounds, nearly all permanent structures of Colonial design, alined along the waterfront, where they will remain to form the nucleus of Norfolk's prospective new suburb, which may become known as Colonial Park.

The resources of the States will be shown by exhibits in what is known as the States Building.

The principal exposition buildings are: Hall of Congresses. 236 feet long and 160 feet wide, with wings 62 feet wide; auditorium, 150 x 250 feet; Mining and Metallurgy, 100 x 250 feet; Manufactures and Liberal Arts, 280 x 550; Machinery and Transportation, 280 x 550 feet; States Exhibits Palace, 300 x 500; Food Products, 300 x 250 feet; History and Historic Arts, 100 x 300 feet; Education Buildings, two, connected by colonnades with wings of Hall of Congresses, each 124 x 129; Marine Appliances, 26,000 square feet; Palace of Commerce, 11,500 square feet. The grounds of the Jamestown Exposition are ideally located. Sewell's Point has historic interest of its own and overlooks the scene of the great marine duel between the "Merrimac" or "Virginia" and the "Monitor." Topographically the exposition site was particularly adapted to its purpose and susceptible to the adornment and general treatment that adds so much to the attractiveness of an exposition. Its marine frontage made possible the naval display, and its beach adds the delight of sea bathing. It extends along Hampton Roads two and a half miles, and Boush's Creek skirts it for a mile and a half. Covering 600 acres, more than the World's Fair at Chicago had, the grounds offer ample room for the buildings, broad boulevards, lawns, groves, and rambles, and the Lee Parade of thirty acres. Near this is the military camp with sloping ground, giving natural drainage. More than a million plants have been set out and

mounting six 6-inch and four 4.7-inch guns, and the gunboat "Tamoyo," of 1,030 tons and 23 knots and a battery of two 4.7 and six 6-pounder guns.

UNITED STATES FLEET.

The United States fleet assembled at Hampton Roads to receive the visiting squadrons is one of the strongest aggregations of naval power ever drawn up for review. In the fact that of the forty ships or more twenty are armored, and that eighteen of them are battleships, the composition of the fleet is strictly representative of the United States navy, especially in its later development. Ours is essentially a battleship navy; and our naval constructors have been careful to maintain the national reputation for mounting exceedingly heavy batteries—a fact which is at once evident from a study of the number and caliber of the guns given in the accompanying table. Another satisfactory feature evident in this table is that, since the period of the Spanish war, we have built our ships strictly in classes. There is no instance of the construction

landed there May 13, 1607, now an island cut off by the currents of the James River, is some thirty-odd miles up the river, above Hampton Roads. The town as such ceased to exist two hundred years ago and the island now is partly used for farming purposes. The historic portion is owned by the Association for the Preservation of Virginia Antiquities, which tends it with reverent care and has made valuable research through excavation. The government has built a retaining wall about part of the island to protect it from further encroachments of the river and has erected on the island a monument to the first House of Burgesses-the first representative body of the people assembled on this continent. The Colonial Dames have restored the Old Church, the dismantled tower of which alone remained, and the Daughters of the American Revolution have erected a copy of Hays Barton, the home in Devon, England, of Sir Walter Raleigh. The Pocahontas Memorial Society has been engaged in raising a subscription of \$10,000 for a





THE NAVAL REVIEW AND EXPOSITION GROUNDS AT JAMESTOWN.-[See page 350.]