APPLIED SCIENCE.

New Method for Testing the Quality of Iron.—Van Ruth, the Inspector of Mines of Holland, examines the structure of iron by smoothing the surface at the desired point, and then treating it from 6 to 24 hours, according to temperature, &c., with hydrochloric acid, until the slaggy portions, which are more readily affected than the iron, are dissolved out and the fibers are left in relief, so that an impression may be taken from the surface with printers' ink, India ink, &c., which will exhibit the structure clearly, and serve for distinguishing and comparing the iron.

Process for Bleaching Rape, Poppy, and Linseed Oils.—Puscher states that by mixing 220 pounds of these oils intimately with 4½ pounds of a mixture containing equal parts, by weight, of 96 per cent alcohol, and oil of vitriol, they do not become partially resinous, as when oil of vitriol alone is used, but the sulphethylic acid mixes perfectly uniformly with them. The green turbidity that soon appears after a while becomes black, and, after standing 24 to 48 hours, forms a slight black sediment. Poppy and rape oils become perfectly clear; linseed oil in thick layers retains a trace of yellow. The oils, after being drawn off from the sediment, must be thoroughly shaken with several quarts of hot water, to free them from traces of sulphuric acid, and then be allowed to settle.

Inerasible Writing Ink and Black Aniline Varnish.—An ink that is not affected by strong mineral acids nor alkalies, and at the same time will not corrode steel pens, may be made by triturating 50 grains of aniline black with a mixture of 60 drops of concentrated hydrochloric acid and 360 grains of alcohol, and diluting the deep blue solution obtained with a hot solution of 90 grains of gum-arabic in 1,400 grains of water.

A very deep black varnish for wood stained black, brass, or leather, can be prepared by using a solution of 315 grains of shellac in 1,440 grains of alcohol, instead of the solution of gum-arabic, to dilute the above-mentioned aniline-black solution.

Effect of Different Manures on the Production of Opium.—Experiments, by Dr. Dietrich, gave the following results. The blue German poppy not only yields the largest amount of opium, but also that richest in morphine. Opium from unmanured land contains less than one-half per cent of morphine; that from land manured with saltpeter had three to four times this amount; while that from land manured with sulphate of ammonia contained 13 times as much. The application of potash and phosphoric acid, alone or mixed, did not essentially increase the amount of morphine. He concludes, therefore, that the ammonia of the atmosphere does not afford sufficient nitrogen for the formation of vegetable products rich in that element; that nitrogenous fertilizers are of the highest importance for this purpose; and that the presence of nitrogen in the manure, as an ammonia compound, is more favorable to the formation of morphine than as a nitrate.

Detection of Adulterations of Madder.—A simple method, quoted from Pernod, is given in *Iron*, for detecting the more probable adulterations of madder. These he divides into two classes; those which give colored compounds with oxide of tin, &c., such as logwood, peachwood, barwood, &c., and those which contain tannin, with little or no coloring matter, such as oak bark, extract of chestnut, &c. These latter substances produce a black or brown color with solutions of iron. To detect adulterations of the first class, take a piece of white paper of four inches square, dip it into a solution of tin crystals, lay it on a white earthenware plate, and sprinkle a little of the finely-powdered sample upon it. If logwood be present, purple spots will appear in about half an hour. Peach and barwood will be betrayed by red spots, and fustic by yellow; while pure madder gives merely a faint yellow color. A piece of paper similarly steeped in sulphate of iron will serve for the detection of the second class of impurities, every particle of which will be indicated by a fine black spot. An adulteration amounting only to one part in a thousand parts of madder may thus be detected.

Preservation of Food by Cold.—A hint at what may possibly become an important method of preserving animal and vegetable substances for an indefinite length of time, without subjecting them, as at present, to the action of heat, and thereby materially affecting their texture and taste, is furnished by Boussingault to the Academy of Sciences of Paris. In a recent communication to that body, he states that, as long ago as 1865, he exposed beef bouillon in hermetically sealed vessels to the action of a freezing mixture at a temperature of 4° F., keeping the same immersed in the mixture for several hours. On opening these vessels, quite lately, he found that the contents had undergone no change, and were precisely as before being submitted to the cold.

The juice of sugar cane, exposed in a closed vessel to a similar degree of cold, was also preserved from any alteration. Boussingault refers in his article to the fact, well known to geologists, that a low temperature, continued for ages, prevents the decomposition of muscular fiber, instancing the fact of the discovery in 1804, at the mouth of the Lena River in Siberia of an elephant buried in the ice which was so well preserved as to serve as food for the dogs of the native tribes.

Substitute for Milk for Calves.—An article of food for calves, suggested by Liebig, analogous to his substitute for milk for children, has been thoroughly tested by Von Rothenhan, with the most favorable results. Its cost is about half that of milk, it is easier to prepare than other substitutes for milk of inferior character, and which are not as eagerly taken by the calf, and it never produces diarrhea or other injurious consequences. For the latter reason it is also especially adapted to young pigs. It may be prepared as follows: 1 quart of water, 1 quart of skimmed milk, 1,130 grains of bruised malt, 1,130 grains of wheat flour, and 90 to 100 drops of a solution of bicarbonate of potash in 11 parts of water are stirred together, allowed to stand for half an hour, then well boiled with stirring, and finally filtered through gauze to remove undissolved flour, &c., which might cause flatulence, &c. It will keep 24 hours, and must be prepared daily, and given warm. For the first six weeks all the milk is given the calf, then the mixture is gradually substituted for a portion of the milk, until eight quarts of the mixture and no milk are given per day. As much clover and white hay as it will eat are supplied at the same time. After three months only half as much of the mixture is fed, with the addition, however, of about half a pound of oil-cake, and, in the Fall, of boiled potatoes also. It may likewise be given to calves at first, when milk does not agree with them.

Effect of Time of Seeding on Grain.—Prof. Thiel of the Agricultural School of Darmstadt, while attributing the failure of development of much of the seed sown in great part to defective seeds, to the variable depths at which they are deposited when a drill is not used, and to the numerous injurious insects, suggests that the effect of unfavorable weather, in addition to all other causes, especially with Winter grain, may cause the destruction of a great number of plants already developed, and that, consequently, a most important point to be determined, in connection with certainty of crops, is the proper time for seeding. In order to substantiate this opinion experimentally, portions of ground were seeded with rye and wheat, at intervals of eight days, from Dec. 14 to Nov. 27, when heavy frost prevented further seeding. The number of fully developed stalks was compared with the number of seeds that germinated, as well as with the whole number planted. The differences in development were estimated by the number of stalks and heads, and the length of the stalks; the number of grains, according to the author's view, in small patches, not affording a proper criterion for comparison, even if the ravages of the birds did not render their complete determination impossible. In the tabular statement given the numbers are in all respects favorable to the three early seedings. In spite of the differences in time of seeding, there was a difference of only a few days in the shooting of the stalk, and in blossoming, so that the grain ripened about the same time; and in these facts may lie the poorer yield of the late seeding, even of the plants that reached maturity. These began to shoot under the influence of favorable weather in the Spring, without having had time to assimilate sufficient nutriment for vigorous development. The author does not contend that a difference of eight days in seeding time, at the right season, would necessarily have a decided effect, but that other influences, such as peculiarities of soil, character of preceding crops, &c., may be greater; and again he admits that the weather in the beginning of November may at times perhaps be less favorable to newly sown seed than in the middle of the month; but he claims, that circumstances of this kind do not affect the general statement (as substantiated by his experiments) mainly, that sowing seed at the proper time, i. e., early in the season, insures greater certainty of germination and development, more vigorous and healthy plants, fuller growth, larger number of stalks and heads and longer straw.

INDUSTRIAL PROGRESS.

The Tecumseh Iron Company of Cherokee County, Ala., was recently organized under favorable circumstances. It has a subscribed capital of $100,000, with many leading citizens of Alabama and Georgia as stockholders. It augurs well for its success, also, that it has Gen. Willard Warner as President and manager.

The works of the Nes Silicon Steel Company in Sandusky, Ohio, are approaching completion. The company propose to make steel rails and superior qualities of iron by a new patented process. The President is E. Gulick, and the Vice-Presidents are Messrs. Alonzo B. Cornell, E. P. Wheeler, and William Halsey.

The straits to which English manufacturers are reduced for cheap coal compels a leading technical paper to observe that "the day is probably not very far off when it will become matter for full consideration how England may best and most economically draw upon the immense coal seams of Picton and Cumberland River in Nova Scotia."

Birmingham, Eng., advices of the 27th ult. state that "several steel manufacturers, partly owing to brisk demand, and partly on account of the increased cost of fuel and raw materials, have found it advisable to raise prices 10 per cent. The American and continental markets show no falling off, on the contrary, an increasing quantity is being shipped from Liverpool weekly."

It is a pleasing indication of the drift of public opinion that in a recent election contest in Sandusky, Ohio, it was regarded as the best claim of a candidate that he had subscribed $5,000 to establish steel works, aided the railroad and coal interests of the place, and insured the building of a blast furnace in the city. This is better than a long recital of "party" services.

Cotton mills, a Memphis paper observes, pay well in the South. It gives the balance sheet of one in that city which runs 100 looms and 3,024 spindles, and realized last year $30,353, equivalent to 25 per cent on the capital stock. A mill in Augusta, it is also said, running 500 looms, paid two years ago a dividend of 20 per cent. "The nearer," it aptly remarks, "the cotton mills are to the cotton fields the greater are the profits."

St. Louis aspires to have cotton factories. A local journal says: "We shall have no permanent trade in cotton until we set thousands of spindles to work manufacturing cotton goods. The completion of the bridge over the Missouri will insure a constant supply of cheap fuel, thus giving us a motive power at a cost little more than that of water power in the East, while our manufacturers will find a ready market right at their doors."

Joining in the general desire to encourage and foster manufactures in the South, *The Savannah Republican* observes that some cotton mills in Georgia pay 20 per cent on the capital invested therein; that the facilities for obtaining water power are abundant, while plenty of raw material is at hand, and labor is comparatively cheap. The same journal approves of the act of the Legislature exempting from taxation the capital (from other States) invested in the Arkwright factory.

According to the census returns, which show a wonderful increase in the value and diversity of the manufactured products of the entire country, the 11 States whose manufactured products exceed $100,000,000 annually, were as follows:

States.	Annual Products.	States.	Annual Products.
New-York	$785,194,651	New-Jersey	$169,237,732
Pennsylvania	711,894,344	Connecticut	161,065,474
Massachusetts	553,912,568	Michigan	118,394,676
Ohio	269,713,610	Rhode Island	111,418,354
Missouri	206,213,429	Indiana	108,617,278
Illinois	205,620,672		

NOTES ON EDUCATION.

Col. E. B. Morgan of Aurora proposes to give the Auburn (N. Y.) Presbyterian Theological Seminary grounds, buildings, and money, to the amount of $500,000. All this on condition, however, that the institution is removed to Aurora.

An editor of Columbus, Ohio, is graciously gratified, and says so enthusiastically, by the charming costume of the young ladies at some public performances at the High School, lately. The Senior Class was dressed in modest calico.

Harvard is having a course of Sunday evening sermons which is to continue through May and June. In the list of clergymen are the names of the Rev. Phillips Brooks, Alexander McKenzie, John F. W. Ware, H. W. Bellows, Edward E. Hale, and A. P. Peabody.

There is a complaint at the South that many of her young men are not now educated in this country, but abroad, whence they return with good manners, a little smattering of Latin and French, a little music, a few poor drawings, and a good knowledge of wines. They also bring back a contempt for republicanism, and no religion to speak of. This is all wrong, if it be true.

The English National Union for Improving the Education of Women has offered seven scholarships of $125, tenable for one year, for competition throughout the United Kingdom—the competitors to be young women over sixteen years old. These scholarships are to be awarded by the Universities of Oxford, Cambridge, and Edinburgh, Trinity College, Dublin; the Science and Art Department, Society of Arts, and College of Preceptors, London, at their examinations this year.

Archbishop Manning, in appealing to the Catholic clergy to use all their influence for religious education at the next general election, says that no Catholics can take degrees in England "without exposure to the pestilential infidelity of Oxford or London University, where ethics and metaphysics are taught in such a way that young Catholics, though they may see the falsity of the conclusions, are perplexed and confused, and cannot find answers."

Another building is to be added to the Indiana State University. It will be useful above anything else for the accommodation and exhibition of Dr. David Dale Owen's very valuable collections in mineralogy, geology, and zoölogy. The second floor will be used for the library of the institution. This already numbers 7,000 volumes, and $2,500 is expended upon it every year. The attendance during the present year has been greater than at any previous time in the history of the University. The establishment of two additional chairs in the Literary Department is contemplated.

The California University is as lucky as it is deserving. Gifts are pouring upon it in an avalanche. There is the Tompkins $50,000 Oriental Professorship; there are the Toland Medical College property, Mr. Reese's gift of Dr. Lieber's library, and his intended purchase—a large and valuable library for the University in Europe. Large and well arranged cabinets of mineralogy, geology, and archæology, have just been presented; also a quartz battery and ten acres of land adjoining the University. Several gentlemen have lately made gifts in money.

The Massachusetts Association of Classical and High School Teachers recently discussed the question of single or double sessions in high schools, and voted by a good majority that the single session was preferable. The chief argument used was that all great scholars and literary men did all their work for the day before dinner. The Association also talked about the expediency of enlarging the range of the requirements for admission to college. President Eliot of Harvard was present, and said that if Harvard should adopt this higher standard she would have to do it alone, for hers was already as high as any of the other colleges would agree to. He thought that the six years of the students could be utilized better than at present, but they would have to go below the high schools to effect the change.

In Boston they are urging the matter of instruction in sewing in the public schools. The Chairman of the Committee on Industrial Schools has presented to the School Committee a report upon the question, which has not been acted upon, but which has attracted great public interest. It includes the following proposed orders:

1. *Ordered*, That, on and after September next, sewing now taught in the sixth, fifth, and fourth classes of the girls' grammar schools, be gradually introduced into the three other classes in said schools; the present fourth class and its successors, as it advances from the fourth to the third, and from the third to the second, and from the second to the first class, to continue to receive instruction in sewing, so that in three years from this time it may be universally taught in all the classes of the girls' grammar schools, and more thorough and progressive instruction given.

2. *Ordered*, That, whenever the gradual progress of this plan permits, practical instruction in cutting, shaping, fitting, and thoroughly making children's and ladies' garments shall be given to the members of the first and second classes of the girls' grammar schools; and that, in preparation for it, the District Committee of each girls' school shall be authorized to procure and nominate to this Board a sewing teacher, thoroughly competent to give the aforesaid instruction, and, giving her whole time to the city, to take supervision and charge of the whole department of sewing in the school; her salary to be subsequently determined by this Board, but never to exceed the highest salary paid to any female assistant in said schools.

3. *Ordered*, That, when the gradual progress of this plan makes it necessary, the Committee on Accounts be authorized to furnish, on the requisition of each district committee, all the materials necessary to give the contemplated instruction in cutting and making garments, to an extent not exceeding $200 to each school, and not exceeding $50 to any one room.

4. *Ordered*, That each district committee be authorized, if at any time they shall deem it expedient, to select and associate with them one or more competent ladies from their district, to aid them in superintending or carrying out this plan of thorough instruction in sewing.

New Publications.

IN THE SCIENCE OF HEALTH for May we have "Health against Fashion;" "Diet of a Nursing Mother;" "Seasonable Dishes;" "Teeth of Different Nations;" "Popular Physiology;" "Flatulence and Heart-burn;" "Health of Mechanics;" "American versus Chinese Medicine." Answers to correspondents, &c., make up a good number of this excellent Magazine, which is only $2 a year. Sent on trial three months for 25 cents. S. R. WELLS, 389 Broadway, N. Y.

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Horace Waters & Son, 481 B'way, N. Y., will dispose of 100 PIANOS, MELODEONS, and ORGANS of first-class makers including Waters's, at EXTREMELY LOW PRICES FOR CASH, during THIS MONTH. New 7-octave PIANOS, modern improvements, for $250 and $275, cash. THE WATERS CONCERTO PARLOR ORGANS, are the most beautiful in style and perfect in tone ever made. Prices at bargains, for cash. Monthly installments received, running from one to three years. New and second-hand instruments to let, and rent applied if purchased. Illustrated Catalogues mailed.

Notices of Bankruptcy.

FOR SALE.
EAST ALABAMA AND CINCINNATI RAILROAD.
In the District Court of the United States for the Middle District of Alabama—In Bankruptcy. In the matter of the East Alabama and Cincinnati Railroad Company, a bankrupt.
Pursuant to the order of the said Court, made on the 8th day of April, A. D. 1873, the undersigned, assignees in bankruptcy of the East Alabama and Cincinnati Railroad Company, hereby give notice that they will expose for sale for cash, at public auction, at the Artesian Basin, in the City of Montgomery, Alabama, at 12 o'clock, meridian,
ON THURSDAY, THE FIRST DAY OF MAY, A. D., 1873,
all the continuous railroad of said Company, from its terminus at Eufaula, in the State of Alabama, to its terminus at Guntersville in the State of Alabama, together with its franchises, equipments, rolling-stock, machine-shops, depots, water stations, road beds, machinery, tools, easements, and every other right, interest, or estate whatsoever, which was conveyed by said East Alabama and Cincinnati Railroad Company by its mortgage or deed of trust executed on the first day of July, A. D., 1870, to Henry Clews and William R. Barnes; subject, however, to the lien of the State of Alabama, on its indorsements of the first mortgage bonds of said Railroad Company, and to the lien of the holders and owners of the first mortgage bonds so indorsed by the State of Alabama, to the amount of four hundred thousand dollars, and subject to the further lien of the holders and owners of the first mortgage bonds of said Railroad Company unindorsed by the State of Alabama, to the amount of three hundred and five thousand dollars.
SAMUEL G. JONES, JOHN F. BAILEY,
Assignees in Bankruptcy of the East Alabama and Cincinnati Railroad Company, Bankrupt.—Dated Montgomery, Alabama, April 8, 1873.

IN the matter of the Estate of BOWLES BROS. & Co. in Bankruptcy.—The list of creditors filed in said case being incomplete, all creditors who have not been represented in Court are requested to communicate immediately with the assignee in Boston, and state their address and the nature and amount of their claims, in order that the full amount of indebtedness may be ascertained as early as possible.
HENRY J. STEVENS, Assignee, 19 Court-st., Boston.
New-York creditors can learn the necessary facts by applying to SANFORD, ROBINSON & WOODRUFF, Counselors-at-Law, 102 Broadway, New-York City.

Marble and Slate Mantels.

A. KLABER, Steam MARBLE and MARBLEIZING WORKS, 134 and 136 East Eighteenth-st. Marble and Marbleized Mantels, Tiling, Marble Counters, Monuments, at prices that defy competition. Marble turning for the trade.

STEWART's SLATE MANTELS—Rich and elegant designs. Slate work of every description. MARBLE and WOOD MANTELS. T. R. STEWART & Co., 220 and 222 West Twenty-third-st., near Seventh-ave.

THE PENRHYN SLATE Co. have removed to their new warerooms, Union-square, Fourth-ave., and Seventeenth-st., and are offering a large assortment of MANTELS, GRATES, &c., comprising many elegant and unique designs, at prices challenging competition.

To Whom it may Concern.

FISH COMMISSION.—The Annual Report of the New-York Fishery Commissioners is ready, and will be sent to any one without charge on application to ROBERT B. ROOSEVELT, 160 Broadway.
HORATIO SEYMOUR, EDWARD M. SMITH, ROBERT B. ROOSEVELT, Commissioners.

London Advertisements.

YORKSHIRE RELISH.
The Most Delicious and Cheapest Sauce in the World. Warranted pure and free from any injurious ingredient.
672,192 BOTTLES SOLD IN ONE MONTH (AUGUST, 1872). Sale unprecedented in the history of Sauces.
Sold by Grocers, Druggists, and Oilmen, in bottles, at 6d, 1s., and 2s. Trade Mark—Willow Pattern Plate. Beware of Imitations.
Manufacturers: GOODALL, BACKHOUSE & CO., Leeds, England.

Goodall's Quinine Wine.
The BEST and MOST AGREEABLE TONIC yet introduced. For the relief of Indigestion, General Debility, and Loss of Appetite it is invaluable. Recommended for its purity by the Food Journal, Arthur Hill Hassall, M. D., Wentworth L. Scott, esq., F. C. S., F. A. S. L., F. R. S. S. A., &c. Sold by Grocers, Oilmen, and Chemists, in large bottles, at 2s. each. Beware of imitations. Prepared by GOODALL, BACKHOUSE & Co., Leeds, England.

Corporation Notices.

CORPORATION SALE OF REAL ESTATE and LEASES OF FERRY FRANCHISES.
Public notice is hereby given that the Commissioners of the Sinking Fund of the City of New-York will offer for sale at Public Auction, on TUESDAY, APRIL 29, 1873, at noon, at the Exchange Salesroom, No. 111 Broadway, in the City of New-York, the following Real Estate belonging to the Corporation of the City of New-York:
Premises known as No. 160 Wooster-st.
Premises known as No. 252 West Thirty-fifth-st.
Premises known as No. 53 Spring-st.
Premises known as No. 49 Leonard-st.
Building and land on the east side of Avenue C, between Sixteenth and Seventeenth-sts., known as the Eighteenth Ward Market.
Full warrantee deeds will be given to all purchasers. Lithographic maps of the above real estate may be obtained at the Comptroller's Office on and after the 10th of April next.
ALSO,
SEALED BIDS will be received, to be publicly opened at the Comptroller's Office on APRIL 29, 1873, at 3 o'clock p. m., for leases for a term of 10 years from May 1, 1873, of the following Ferries and Ferry Franchises:
Ferry now established from foot of Houston-st., E. R., New-York, to foot of Grand-st., Brooklyn, E. D.
Ferry now established from foot of Grand-st., New-York, to foot of Grand-st., Brooklyn, E. D.
Ferry now established from foot of Ninety-second-st., E. R., to Astoria, Long Island.
Lease of Ferry Franchise now established from foot of Barclay-st., N. R., to Hoboken, New-Jersey.
Lease of Ferry Franchise now established from foot of Desbrosses-st., N. R., to foot of Harsimus-st., New-Jersey.
The leases to be made to conform to the requirements of laws relative to Ferries and such regulations, ordinances, or by-laws as are now, or hereafter may from time to time be made or passed by the Common Council or State Legislature.
Bids to be addressed to the undersigned and indorsed: "Bids for Ferry Franchises."
The right to reject any bid if deemed to be to the interest of the City of New-York, is reserved by the Commissioners of the Sinking Fund.
ANDREW H. GREEN, Comptroller.
Comptroller's Office, New County Court-House, March 27, 1873.

ORDINANCES APPLICABLE TO THE ORDINARY USE OF THE CENTRAL PARK.—The Board of Commissioners of the Department of Public Parks, this 31st day of March, A. D. 1873, adopt and ordain the following ordinances for the use of the Central Park, to be observed by all persons not in the service of the Department:
I. No one shall enter or leave the Park except at the established entrance ways, nor shall any one enter or remain in it after 11 o'clock at night, during the six months beginning May 1; nor after 9 o'clock at night during the six months beginning Nov. 1, except as, on special occasions, its general use may be authorized beyond the regular hours.
II. No one shall climb upon or in any way cut, break, injure, or deface any wall, fence, shelter, seat, statue or other erection, nor any turf, tree, shrub, or other plant, nor throw stones or other missiles, nor discharge fire or carry any fire-arm, fire-cracker, torpedo or fireworks, nor make a fire, nor play any musical instrument, nor offer or expose things for sale, nor post or display any sign, placard, flag, banner, target, transparency, advertisement or device of business, nor solicit business or fares, nor beg or publicly solicit subscriptions or contributions, nor tell fortunes, nor play games of chance or with any table or instruments of gaming, nor make any oration or harangue, nor utter loud threatening, abusive or indecent language, nor do any indecent or obscene act.
III. No quadrupeds except those placed in the Park by the Commissioners, and except dogs when controlled by a line of suitable strength not more than six feet in length, and horses and others used for pleasure travel, shall be driven or conducted into the Park, or allowed to remain in it.
IV. The drive shall be used only by persons in pleasure carriages or on horseback; the ride only by persons on horseback; animals to be used on either shall be well broken and constantly held in such control, that they may be easily and quickly turned or stopped; they shall not be allowed to move at a rate of speed which shall be alarming or cause danger, nor under any circumstances at a rate of speed on the drive of more than seven miles, nor on the ride of over 12 miles an hour; and when any park-keeper shall deem it necessary to safety, good order, or the general convenience, that the speed of an animal shall be checked, or that it should be stopped, or its course altered, and shall so direct, by gesture or otherwise, it shall be the duty of the rider or driver of such animal to follow such direction; and no horse or other beast of burden or draft shall be driven or suffered to stand anywhere, except on the drive or ride.
V. No hackney-coach or other vehicle for hire shall stand within the Park, for the purpose of taking up passengers, other than those whom it has brought in. No omnibus or express wagon, and no wagon, cart, or other vehicle, carrying, or ordinarily used to carry merchandise, goods, tools or rubbish, and no fire engine or other apparatus on wheels for extinguishing fires, shall enter or be allowed upon any part of the Park.
VI. No military or target company, and no civic, funeral or other procession, or a detachment of a procession, and no hearse or other vehicle, or persons, carrying the body of a dead person, shall enter, or be allowed on any part of the Park.
VII. No person shall bathe or angle, or take fish, or send or throw, or place any animal or thing in or on the waters, or disturb or annoy the birds or animals in the Park.
VIII. No person shall go on the turf except when and where the word "common" is posted as an indication that at that time and place all persons are allowed to go on it.
IX. No person shall bring into or carry within the Park any tree, shrub, plant or flower, nor any newly plucked branch or portion thereof.
X. When necessary to the protection of life or property, the officers and keepers of the Park may require all persons to remove from, and keep off any designated part thereof.
XI. On the arrest of a person in the Park, he shall be forthwith conducted to one of the keepers' stations, the officer in charge of which shall determine whether he shall thence be conveyed before a magistrate or be discharged.
By order of the Board of Commissioners of the Department of Public Parks. HENRY G. STEBBINS, President.
F. W. WHITTEMORE, Secretary.

HORSE and CARRIAGE MARKET

NEW-YORK, Wednesday, April 16, 1873.

At the City Auction Mart and New-York Tattersalls, Messrs. Barker & Chase disposed to-day of the following stock at the annexed prices:

Description.	Hands.	Years.	Price.
Bay gelding, Boston Boy, sired by Draco	15.3	7	$700 00
Black gelding, Prince, sired by Gen. Knox	15.3	6	270 00
Black mare (Abdallah stock)	15.2	8	230 00
Bay gelding John Henry, sired by Volunteer	15.3	6	300 00
Brown gelding sired by Toronto Chief	15.1	6	215 00
Gray horse	16.2	9	100 00
Bay horse	15	7	130 00
Bay horse	16	8	116 00
Bay horse	16	7	300 00

and several common draft horses, at an average of $100. Also, second-hand wagons, harness, etc.

On account of the widening of Broadway, which necessitates the surrender of the south-west corner of Barker & Chase's City Auction Mart, known as the New-York Tattersalls, this auction firm will offer on the 19th and 21st inst. all the horses, carriages, wagons, harness, etc., forming the entire stock now held on sale at their premises, corner of Thirty-ninth-st. and Broadway. Deserving of especial attention will be some 20 head of desirable road and business horses, a recent consignment from Monroe County, N. Y.

Business in the Bull's Head Market was only moderate, and without feature.

There will be the usual weekly sale at Richard McCullough's Sales and Storage Repository, corner of Twenty-fifth-st. and Fourth-ave., to-morrow (Thursday), the 17th inst., at 11 a. m. Mr. Allen B. Miner will officiate as auctioneer.

Horses, Carriages, Harness, &c.

A.—NEW-YORK SALES AND STORAGE REPOSITORY, 337 TO 341 FOURTH-AVE., CORNER TWENTY-FIFTH-ST.
CARRIAGES, HARNESS, BLANKETS, &c., taken on SALE and STORAGE.
CASH ADVANCES MADE ON SAME, AND SOLD AT PRIVATE OR AUCTION SALES.
Special Trade Sales for manufacturers of carriages, harness, &c., arranged on liberal terms.
Articles left on storage will have the advantage of being constantly on view in the Repository. (Insurance effected at once if desired.)
RICHARD McCULLOUGH, Proprietor.
AUCTION SALES THURSDAYS OF EACH WEEK.
ALLEN B. MINER & BROTHER, Auctioneers.

AUCTION SALE OF ALDERNEY OR JERSEY CATTLE.—At Brightside, West Farms, New-York, on THURSDAY, April 17, at 12 o'clock noon, will be sold at Public Auction, THE ENTIRE STOCK OF THOROUGHBRED JERSEY HERD BOOK CATTLE, belonging to, imported and bred by RICHARD M. HOE. Also several pure bred Scotch Stag hounds from choice imported stock. On view the day previous to the sale. "Brightside" is on the Southern Boulevard and Westchester Road, one mile east of Morrisania depot, Harlem Railroad, or 2½ miles by the Southern Boulevard from Harlem Bridge, Third-ave. Sale to take place, rain or shine.
Trains for Morrisania leave Grand Central Depot, Forty-second-st., at 9:30, 10:15, and 11:40 a. m.

FOR SALE—HORSES and DOGS. Any person desirous of obtaining first-class hunters, trotting, draught, or other Horses, or well-trained sporting-dogs, can see the same by one week's notification from requirement. State price intended to purchase, as it will save inconvenience. Address HAWKS & Co., Montreal, Canada.

GREAT SALES DAILY.—Every style Family CARRIAGES and light Road WAGONS, new and second-hand, at reasonable prices; HARNESS, in great variety. At the MANUFACTURERS' UNION, 626 Broadway.

HARNESS.—Horse Clothing, Blankets, Breast Aprons, Robes, and Horse equipments of every description: the largest variety in New-York. C. M. MOSEMAN & BRO., Manufacturers: warerooms, 114 Chambers-st.

HORSE BLANKETS, HARNESS, SADDLES, and all kinds of Saddlery goods extensively manufactured; a full line of Blankets for street and stable; plush and other Carriage Robes of every quality. C. S. SMITH & Co., 40 Warren-st.

Sales by Auction.

A. MERWIN, Auctioneer.
BY BANGS, MERWIN & Co., Broadway, cor. 4th-st.—Sales of Books, Works of Art, Fancy Goods, Furniture, &c.

Furniture.

GEORGE A. CLARKE, No. 747 Broadway.
Desires to call attention to his fine assortment of fashionable FURNITURE, CARPETS, UPHOLSTERY, &c.
Parties desirous of availing themselves of the advantages of this POPULAR SYSTEM OF PAYMENTS in the furnishing of their houses or apartments, are invited to an examination of the same.

STORAGE
AND SAFE KEEPING
For FURNITURE, BAGGAGE, PIANOS, CARRIAGES and all OTHER PROPERTY, in SEPARATE CLOSED COMPARTMENTS, always accessible. Goods received from any point without previous notice, and raised on elevators. Recent improvements enable wagons to discharge in interior court of warehouses, avoiding all delays and street risks. These establishments are the oldest, most extensive, and best experienced, and are guarded day and night by private watchmen.
H. G. HAEGER,
Eighth-ave., from Thirty-third to Thirty-fourth-st.

Amusements.

ASSOCIATION HALL.
SATURDAY AFTERNOON, APRIL 19, 2 p. m.,
MATINEE READINGS BY Mrs. SCOTT-SIDDONS,
with a new and brilliant programme.
Tickets 50 cents. No extra charge for reserved seats; for sale at Schirmer's and Gurley's.

BROOKLYN ACADEMY.—(RUBINSTEIN-THOMAS.)—TO-NIGHT, Thursday Evening, April 17, POSITIVELY LAST APPEARANCE of the GREATEST CONCERT COMBINATION ON RECORD. FINAL JOINT APPEARANCE OF ANTON RUBINSTEIN, HENRI WIENIAWSKI, and THEO. THOMAS, with his UNRIVALED ORCHESTRA.
On this occasion will be performed, for the first and only time RUBINSTEIN'S OCEAN SYMPHONY, by the THEO. THOMAS ORCHESTRA, under the direction of the composer, Mr. ANTON RUBINSTEIN. Seats at Brooklyn Academy and at 114 Broadway.

NEWARK OPERA HOUSE.
RUBINSTEIN—THOMAS.
TO-MORROW (FRIDAY) EVENING, APRIL 18, ONLY JOINT APPEARANCE OF ANTON RUBINSTEIN, HENRI WIENIAWSKI, and THEO. THOMAS, with his UNRIVALED ORCHESTRA.

RUBINSTEIN-THOMAS Farewell Matinée.
STEINWAY HALL, SATURDAY AFTERNOON, April 19, at 2.
POSITIVELY LAST AND FAREWELL MATINEE OF THE GREATEST CONCERT COMBINATION ON RECORD.
Comprising ANTON RUBINSTEIN, HENRI WIENIAWSKI.
With THEO. THOMAS and his UNRIVALED ORCHESTRA.
On this occasion Rubinstein will play the A MINOR CONCERTO (Schumann), Ballade (Chopin), and for the first time here several of Henselt's pieces, as also several new COMPOSITIONS OF HIS OWN. Mr. Wieniawski will play the Mendelssohn Concerto (first movement).
The Theo. Thomas Orchestra will perform Overture "King Stephan" (Beethoven), "Vorspiel Lohengrin," "Der Ritt der Walkyren" (Wagner), "Cavalry March" (Schubert), adapted for Orchestra by Liszt.
Reserved Seats, $2, now ready, at Steinway's, 701 and 114 Broadway.

FAIR FOR THE CHAPIN HOME.
Would you make one of a crowd of active philanthropists? Would you invest your money where thieves do not break in and steal? Would you put your greenbacks where they will receive a double blessing? Would you see and be seen, hear and be heard, know and be known, minister and be ministered unto? Would you attend the most successful and brilliant fair of the season? Go THIS EVENING to Apollo Hall, corner of Broadway and Twenty-eighth-st.; go TO-MORROW EVENING; go FRIDAY EVENING; go SATURDAY EVENING. The fair of all others to commend itself to the benevolent is the Fair for the Chapin Home.

GALLERY OF PAINTINGS.
LOUIS DURR'S HISTORICAL COLLECTION, comprising over 300 paintings by the best masters, from the 14th century down to the present time. Now open from 2 to 10 p. m., for the benefit of THE GERMAN HOSPITAL, in the GERMAN SAVINGS BANK BUILDING. Entrance on Fourth-ave., near Fourteenth-st. Admission during the day, 50 cents; in the evening, 25 cents.

GRAND FAREWELL CONCERT
of the
HAMPTON COLORED STUDENTS
at
DR. HEPWORTH'S
MAGNIFICENT NEW CHURCH,
Cor. Forty-fifth-st. and Madison-ave.,
THURSDAY EVENING, APRIL 17, at 8 o'clock.
THEY WILL SING
GENUINE NEGRO CABIN AND PLANTATION SONGS.
SERVICES OF THE ORGANISTS VOLUNTEERED.
Admission 50 cents. No reserved seats. Tickets for sale at the Methodist Book Concern, Carleton's, Gurley's, and Putnam's bookstores, and at the door.

MR. TRENOR's LAST RECEPTION DANSANTE, at Lyric Hall, 723 Sixth-ave., Reservoir-square, FRIDAY EVENING, 18th inst., at 8.

MERCANTILE LIBRARY ASSOCIATION.
JOHN B. GOUGH,
ACADEMY OF MUSIC, April 24, 1873.

MRS. JARLEY's WAX-WORKS,
TO-NIGHT,
AT ST. PETER'S HALL.
THE CREAM OF FUN. COME AND LAUGH!

MRS. JARLEY's WAXWORKS.
THE CREAM OF WIT, HUMOR AND FUN!
AT ST. PETER'S HALL,
West Twentieth-st., between Eighth and Ninth-aves.
POSITIVELY FOR TWO NIGHTS ONLY!
THURSDAY EVENING, APRIL 17, and FRIDAY EVENING, APRIL 18.
By the original Amateurs who have made these entertainments so popular. Reserved Seats at Pond's, 39 Union-square; Schirmer's, 701 Broadway; Ditson's, 711 Broadway.

NATIONAL ACADEMY OF DESIGN.—The Forty-eighth Annual Exhibition of PICTURES and SCULPTURES is now open, DAY and EVENING, Twenty-third-st., corner Fourth-ave.
T. ADDISON RICHARDS, Cor. Sec'y N. A.

TONY PASTOR's OPERA HOUSE,
201 Bowery, opposite Spring-st.
THE GREAT STAR COMBINATION OF AMERICA
in a New, Novel, and Diversified Programme.
MATINEES EVERY TUESDAY and SATURDAY, at 2½.
Ladies admitted free on Friday evenings.

TABLEAUX VIVANTS,
By Prof. G. H. BARTLETT,
and
AMATEUR DRAMATIC ENTERTAINMENT,
IN AID OF
THE NEW-YORK INFANT ASYLUM,
will be given
At ROBINSON'S HALL, 18 East Sixteenth-st.,
FRIDAY EVENING, April 18, at 8 o'clock, and SATURDAY MATINEE, April 19, at 2 p. m. Tickets may be obtained of Mrs. Bates, 10 West Thirty-ninth-st.; Caswell & Hazard's, under Fifth Avenue Hotel, or at the Asylum, 24 Clinton-place.

UNION SQUARE THEATER.
IMMENSE SUCCESS OF
AGNES ETHEL,
IN
FROU-FROU.
The most Magnificent Revival in the history of the New-York Stage.
EVERY EVENING and at the SATURDAY MATINEE,
by special arrangement with Mr. AUGUSTIN DALY, his brilliant adaptation of Meilhac and Halevy's wonderful drama, in 5 acts, entitled
FROU-FROU.
Seats may be secured two weeks in advance.
FIRST FROU-FROU MATINEE SATURDAY, AT 1:30.

ACADEMY. FAREWELL OF AIMEE.
PARISIAN OPERA BOUFFE.
THURSDAY, APRIL 17, GRAND DUCHESSE.
FRIDAY, APRIL 18, LES CENT VIERGES.
THE GREATEST PARISIAN SENSATION.
SATURDAY, GRAND MATINEE at 1 p. m.
LA PERICHOLE. LA PERICHOLE.
Admission, $1; Reserved Seats, $1 50; Gallery, 50 cents; Boxes, $6 and $8. Seats for sale at the Academy of Music; at Schirmer's, 701 and 114 Broadway.

BOOTH's THEATER. BOUCICAULT.
Edwin Booth. Proprietor and Manager.
LAST NIGHTS.
THURSDAY, FRIDAY, and SATURDAY.
LAST THREE NIGHTS of DADDY O'DOWD,
and LAST THREE NIGHTS of MR. DION BOUCICAULT,
in his great character of MICHAEL O'DOWD.
LAST DADDY O'DOWD MATINEE on SATURDAY at 2.
The public of New-York have recognized in this extraordinary delineation one of those great and truthful works of art which remain as heirlooms of the stage. The Management feels gratified the first performance will date from BOOTH'S THEATER.
ON MONDAY NEXT, APRIL 21,
ARRAH NA POGUE and KERRY.
MR. BOUCICAULT as SHAUN and KERRY.

BOOTH's THEATER. MATINEE.
LAST MATINEE of DADDY O'DOWD,
and last appearance but one of MR. BOUCICAULT as MICHAEL O'DOWD.
As Matinée performances at this Theater are so largely attended by ladies and children, the management feels gratified in calling the attention of families to the prominent features in all the Irish plays of this eminent Dramatist, in subject, character, and dialogue, they are pure and free from adulteration, in every sense of that word. And while they are proverbial for their depth of emotion and breadth of humor, they contain nothing the most innocent may not witness, understand, and appreciate.

GRAND OPERA HOUSE. (Begins at 8.)
Mr. AUGUSTIN DALY. Sole Lessee and Manager.
EVERY EVENING and SATURDAY MATINEE,
will be given Mr. Daly's world-famous realistic local sensational drama,
UNDER THE GASLIGHT!!!
with all its great original effects, including the railroad sensation, river and pier scene!
Mrs. JOHN WOOD making her last appearance in America, assuming the part of PEACHBLOSSOM.

FIFTH AVENUE THEATER.
(Curtain drawn at 8.)
Sole Lessee and Manager. Mr. AUGUSTIN DALY.
EVERY EVENING, and SATURDAY MATINEE, magnificent reproduction of Mr. Daly's famed drama of society,
"DIVORCE!"
Which will be given with the original cast, new and costly toilets, furniture, &c.
*** SEATS MAY BE SECURED NINE DAYS IN ADVANCE.

MRS. JARLEY, TO-NIGHT,
With her famous flesh-and-blood WAX-WORKS,
AT ST. PETER'S HALL,
West Twentieth-st., between Eighth and Ninth-aves.
Reserved Seats at Pond's, 39 Union-square; Schirmer's, 701 Broadway; Ditson's, 711 Broadway.

NIBLO's GARDEN. NIBLO's GARDEN.
ENGAGEMENT FOR TWO WEEKS ONLY.
THE VOKES FAMILY IN THEIR GREAT SPECIALTY, THE BELLES OF THE KITCHEN.
Preceded by the brilliant Comedietta, ORANGE BLOSSOMS.
By a Select Company from the Union Square Theater.
MATINEES, WEDNESDAYS and SATURDAYS, AT 2 O'CLOCK.

OLYMPIC THEATER.
J. E. HAYES. Lessee and Manager.
MONDAY EVENING, APRIL 14,
EVERY NIGHT AT 8 O'CLOCK,
and
WEDNESDAY and SATURDAY MATINEES at 2,
LAST WEEK of the 4th edition of G. L. FOX'S HUMPTY DUMPTY.
MONDAY EVENING, April 21,
GRAND RECONSTRUCTION
and
FIRST TIME OF THE 5TH EDITION
of
G. L. FOX'S FAMOUS PANTOMIME.
NEW SCENERY, TRICKS, AND SPECIALTIES.
Full particulars will duly appear.
See the present version ere it be too late.

PHILHARMONIC SOCIETY.
GENERAL REHEARSAL, FRIDAY, April 18, 2½ p. m.
CONCERT, SATURDAY EVENING, April 19, 8 o'clock.
ACADEMY OF MUSIC.
MR. ANTON RUBINSTEIN
will conduct his "Ocean Symphony."
MR. HENRI WIENIAWSKI, Solo Violinist.
GRAND ORCHESTRA
under the leadership of
HERR CARL BERGMANN.

P. T. BARNUM's GREAT
MUSEUM, MENAGERIE AND HIPPODROME,
AND GREAT
TRAVELING WORLD'S FAIR
IN BROOKLYN.
A MAGNIFICENT CANVAS CITY
AT THE
CAPITOLINE GROUNDS!
THE BEAUTIFUL TENTED FIELD
VIEWED AND VISITED BY
FOURTEEN THOUSAND PATRONS
ON THE OPENING NIGHT!!
FOR THE REMAINDER OF THE WEEK.
TWO EXHIBITIONS EACH DAY.
DOORS OPEN AT 1 AND 7. GRAND DOUBLE CIRCUS PERFORMANCE PROMPTLY AT 2 AND 8 O'CLOCK.
Franklin-ave. cars leave Grand, Houston, and Roosevelt-st. Ferries every two minutes. Gates and Fulton-ave. cars leave Fulton Ferry. Nostrand-ave. cars leave South Seventh-st., Williamsburgh. Hamilton-ave. cars leave South Ferry. All the above lines run to the immediate vicinity of the Show Grounds.

STEINWAY HALL. FESTIVAL WEEK.
The public is respectfully informed that a
FESTIVAL WEEK
OF GRAND
ORATORIOS AND CONCERTS
will be given on a scale of
COMPLETENESS AND GRANDEUR
never before attempted in New-York, under the direction of
THEODORE THOMAS.
COMMENCING TUESDAY EVENING, APRIL 22, 1873.
The following distinguished Artists will appear:
Mrs. J. HOUSTON WEST, Mrs. H. M. SMITH, Sopranos.
Miss ANNIE LOUISE CARY, Contralto.
Mr. NELSON VARLEY, Tenor. His first appearance in New-York.
Mr. MYRON W. WHITNEY, Basso.
Mr. J. R. RUDOLPHSON, Baritone.
The celebrated
HANDEL AND HAYDN SOCIETY from BOSTON,
numbering
FIVE HUNDRED (500) VOICES.
Conductor. CARL ZERRAHN.
Organist. Mr. B. J. LANG.
Will appear, together with
THEODORE THOMAS'S UNRIVALED ORCHESTRA,
Largely increased on this occasion.
ORDER OF PERFORMANCES.
TUESDAY EVENING, April 22, at 8,
ELIJAH. ELIJAH.
WEDNESDAY, April 23, AFTERNOON and EVENING.
GRAND PUBLIC REHEARSAL AT 1 O'CLOCK, AND LAST ORATORIO PERFORMANCE AT 8 O'CLOCK, of SELECTIONS FROM HANDEL'S
ISRAEL IN EGYPT,
including the Grand Double Choruses, Airs, and Duets, and the entire of Mendelssohn's
HYMN OF PRAISE (LOBGESANG).
THURSDAY EVENING, April 24, at 8,
AT THE BROOKLYN ACADEMY,
ONLY GRAND FESTIVAL ORATORIO.
ELIJAH. ELIJAH.
FRIDAY, April 25, AFTERNOON and EVENING,
GRAND PUBLIC REHEARSAL AT 1 O'CLOCK, of BEETHOVEN'S NINTH OR CHORAL SYMPHONY.
On FRIDAY EVENING, ONLY FESTIVAL CONCERT,
Mr. ANTON RUBINSTEIN and Mr. HENRI WIENIAWSKI, Mr. S. B. MILLS, Mr. WILLIAM MASON,
and a number of Celebrated Vocalists.
SATURDAY AFTERNOON, APRIL 26,
ONLY FESTIVAL MATINEE.
SATURDAY EVENING, CLOSE OF THE FESTIVAL,
THEO. THOMAS'S LAST SYMPHONY CONCERT.
Last appearance of the celebrated
HANDEL AND HAYDN SOCIETY,
and of
ALL THE DISTINGUISHED ARTISTS.
PRICES OF ADMISSION:
Reserved Seats to the Evening Performances,
TWO, THREE, and FOUR DOLLARS, according to location.
RESERVED SEATS TO THE MATINEE, TWO DOLLARS.
Admission Tickets to Public Rehearsals, ONE DOLLAR.
RESERVED SEATS TO REHEARSALS FIFTY CENTS EXTRA.
The Sale of Reserved Seats will commence THIS MORNING at Schirmer's, 701 Broadway, at 114 Broadway, and at the Box Office at Steinway Hall.

WALLACK's.
Proprietor and Manager. Mr. LESTER WALLACK.
TENTH WEEK OF MR. SOTHERN
in
DAVID GARRICK
and
LORD DUNDREARY MARRIED AND SETTLED,
EVERY EVENING,
and
SATURDAY MATINEE, at 1:30 p. m.,
embracing in their casts the
FOLLOWING EMINENT ARTISTS:
Mr. SOTHERN, Mr. JOHN GILBERT, Mr. J. B. POLK, Mr. BISHOP, Mr. CARROLL, Mr. BROWNE, Mr. LEONARD, Mr. HOLLAND, Mr. EDWIN, Mr. CURRAN, Mr. PECK, Miss KATHARINE ROGERS, Miss FANNY FOSTER, Madame PONISI, and Mrs. JOHN SEFTON.

Lectures and Meetings.

COLLEGE OF PHARMACY
OF THE CITY OF NEW-YORK.
Members, their friends, and ladies, are invited to attend a lecture on
MODERN PHARMACY,
to be delivered by
Prof. C. F. CHANDLER, Ph. D.,
TO-NIGHT, at 8 o'clock in the New Lecture Hall of the College, University Building, University-place, corner of Waverley-place.
H. A. CASSEBEER, Jr., Secretary.

PROF. C. F. CHANDLER, Ph. D.,
will deliver a Free Lecture on
MODERN CHEMISTRY,
THIS EVENING at 8 o'clock,
at the Lecture Hall of the College of Pharmacy, in the University Building, University-place, corner Waverley-place. The members of the Medical and Pharmaceutical professions are invited, as also all who may be interested in the subject.

Fine Arts.

ART SALE,
THIS THURSDAY EVENING,
Also, FRIDAY and SATURDAY EVENINGS, at the Clinton Hall Salesrooms.
THREE HUNDRED PAINTINGS,
WATER COLORS, ENGRAVINGS AND ETCHINGS,
sold by Auction by order of the Executor of the Estate of the late B. R. Corliss, esq., and by order of R. L. Baldwin, Trustee, Baltimore, &c., &c.
This sale affords a rare opportunity for buyers, and is well worthy their attention.
The Messrs. LEAVITT, Auctioneers.

S. P. AVERY's
entire collection of
VALUABLE PAINTINGS,
now exhibiting day and evening
at the Art Gallery,
835 BROADWAY.