

12th February 1875

"GRAINS OF HEALTH." A Pearl Coated Pill, (Tasteless).

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PROGRAMME.

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Printed instructions (gratis) as to the COST of PATENTS for Great Britain or foreign countries. Advice and assistance in disposing of or Working Inventions. Branch offices and agencies in every continental State, and in America. Established 30 years. Full information as to expired or existing Patents at home and abroad. Apply, personally or by letter, to

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Unequalled Silent Lock-Stitch Sewing Machine, 6 Guineas.

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COLLIER & SON'S CHOCOLATE POWDER, 1s. per lb.

500,000 Sample Packets of this Inimitable Chocolate Powder were given away at the International Exhibition of 1882. Hundreds of thousands are now using it, finding it unequalled. We respectfully solicit a trial, feeling assured that you will continue to use it. It is strongly recommended by the Faculty—strengthening the weakly and invigorating the healthy. One cup, or twenty, made in one minute with boiling water only, milk or sugar not being necessary.

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Prepared expressly for the PATENT KNIFE CLEANING MACHINES, INDIA RUBBER AND BUFF LEATHER KNIFE BOARDS. Knives constantly Cleaned with it have a Brilliant Polish, equal to New Cutlery.

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PRICE FROM 1s. 6d. EACH.

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WESTMINSTER BRIDGE ROAD, LONDON, S.E.

NOTICE

108.

The MANAGING DIRECTOR, DR. CROFT, attends at his office daily, between FOUR O'CLOCK and HALF-PAST FIVE.

PROGRAMME.

Lectures by Prof. GARDNER, F.A.S., M.S.A.

1.—CHEMICAL MARVELS,

WITH BRILLIANT EXPERIMENTS.

2.—COOKS AND COOKERY,

A Lecture of Domestic Utility—(as soon as the necessary arrangements are completed.)

Lectures by Mr. J. L. KING.

3.—THE TRANSIT OF VENUS,

This Lecture has been written by Mr. W. H. ROBINSON, who will add to it from time to time, as authentic information arrives.

The SECOND PORTION of the Lecture will contain the results of the various observations in different parts of the world.

4.—THE ISLE OF WIGHT AND ITS QUAIN T LEGENDS.

5.—"SCOPES," OLD AND NEW.

By Mr. SEYMOUR SMITH.

6.—THE MYSTIC SCROLL;

OR,

THE STORY OF ALI BABA AND THE FORTY THIEVES.

A New Incongruity, by Dr. CROFT, author of "Zitella."

MANY OTHER ATTRACTIONS.

W.D.
8°
162
BR

For the Week commencing Feb. 8, 1875.

NOTICE.—The Times of the Entertainments will be adhered to if possible, but it may be necessary, when the building is crowded, that their order should be changed, or additions made to the Programme.

MONDAY Morning—Open from 12 till 5.

- O'CLOCK.
12.0—General Inspection of Models and Objects of Interest in the Building....page 11.
12.45—Demonstration of New Inventions. Messrs. EDMONDS & GARDNER.....(Central Hall) see page 6.
1.15—Exhibition of Leotard the Automaton.....(Central Hall)
1.30—Interval for Refreshments..... see page 11.
1.45—Descent of Diver.....(Central Hall)
2.0—Star Watching, and the Transit of Venus. Mr. KING. (Large Theatre) page 8.
2.45—Performance by the Band.....(Central Hall)
3.0—Chemical Marvels. PROF. GARDNER.....(Small Theatre) see page 5.
3.30—Diving Bell. (Fee for descending in the Bell, 1s.) ... (Central Hall)
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DESCRIPTIVE DETAILS

OF THE
LECTURES & ENTERTAINMENTS.

Chemical Marvels!

A SERIES OF

BRILLIANT EXPERIMENTS,

By PROF. GARDNER.

SYLLABUS:—Ancient Chemistry—Transmutations of the Alchemists—Ancient Philosophy—Modern Philosophy—Chemistry in everything—The Modern Science of Chemistry—Its invaluable services in Arts and Manufactures—In Manufactures generally—In the consideration and understanding of Domestic Hygiene—Chemistry is everybody's Science, and the Science of everything—Even to the exposure of pretended Magic, and the working of pretended Miracles—A practical knowledge of Chemistry is a safeguard against Mistakes in Manufactures and Deceits in Wonders.

Illustrated by a succession of brilliant Experiments.

THE NEW ELECTRICAL AIR FIRE ALARM,

PATENTED BY MESSRS. SPARKES & MARSH.

This new and ingenious arrangement will be explained and shown in operation.

NEW INVENTIONS.

Demonstrated in the GREAT HALL, (for hours see Programme)
By Mr. H. EDMONDS.

ZUCCATO'S PATENT PAPHYROGRAPH.

The Art of Printing from Paper—An entirely new Process, compared with Typography or Lithography—This operation is simple in the extreme, and most economical—It can be learnt in an hour, and is so cleanly it can be operated in a drawing room, and by a lady without inking her fingers, as *no inking is required*—Shown practically in operation, and printing and *fac-simile* of writing made.

THOMPSON'S AUTOMATIC FIRE ALARM.

This new system of alarm and registration is so simple that an inspection will convince any person of its completeness and efficiency. It depends on actuating an alarm by means of a weight, which falls when the heat has become sufficiently great to soften a box, composed of an alloy of bismuth with some other metals. Shown in practical operation.

FIELD'S LYCHNOPHYLAX.

An ingenious method of preventing waste in Candles, and of causing Candles to burn without guttering, even when exposed to a draught. This ingenuity will be fully understood in the description and demonstration.

WETHERED'S FIRE ESCAPE.

A Compound Block Pulley, through which is rove a rope, and with which is connected a hand brake. A person can easily descend by this arrangement at any speed. One person can also easily take a second down, or can lower several at one time without inconvenience. An assistant will descend in the gallery, and illustrate the simplicity of the contrivance.

FISHER'S CHEERFUL GAS STOVES.

These Stoves are made so as to prevent the immediate escape of the production of combustion by a series of deflecting plates; the heated gases are caused to circulate in contact with the Stove, and, eventually, they escape when cooled. Considerably great economy is effected: a dinner can be cooked for 12 persons at a cost of 3d.

SMOKY CHIMNEYS COMPLETELY CURED.

The Cause of Chimneys Smoking—The Arrangement of the Draught—Various plans for Remedying Defects in Chimneys—Cows—Patent Apparatus—The Milborne Patent Cowl fully Illustrated by Experiments, and in practical operation.

Halliday's Griffith's Patent Circulating Tube Boiler.

Importance of safely generating Steam—Economical considerations—The Cornish or Tube Boiler—The Multitubular or Locomotive Boiler—The Tube Boiler—Currents in heated water—Provision made for such circulating currents of water in this new Boiler—The economy, safety and durability of the Griffith's patent safety Boiler, as made by Messrs. Halliday & Co., of New Town, Manchester.

The new **ELECTRIC TORCH** will be also exhibited.

These demonstrations occur daily, and are assisted by Experimental illustrations, Models, Working Machinery, &c., &c.

THE ISLE OF WIGHT

AND ITS

Quaint Legends.

The Lecture will be given by Mr. J. L. KING.

The series of beautiful photographic Views have been coloured by Mr. JOHN GREEN.

SYLLABUS:—The Start from Victoria—The Mid-Sussex Line—The Charming Scenery it passes through—Ryde—Brading and its Church—Little Jane—Sandown—Shanklin—The Chine—Luccombe Chine—Bonchurch—Ventnor—Blackgang Chine—Freshwater Bay and Rocks—The Needles—Newport—Garisbrooke and Castle—Newtown—Godshill—Arreton Church—The Dairyman's Daughter—Cowes—Osborne—The Marine Residence of Queen Victoria—Whippingham Church and the late Prince Consort.

"SCOPES,"

OLD AND NEW,

By Mr. J. L. KING.

The Opaque Microscope—The Oxy-Hydrogen Microscope—The Astromicroscope—The Phenakistiscope—The Stroboscope—The Kaleidoscope and Kaleidographoscope—The Pedemascope—The Kukloscope, invented by Mr. C. Pilkington—The Darker Oxy-Hydrogen Polaroscope and its beautiful effects.

THE BAND

Of the Institution, under the direction of Mr. E. FREWIN, will perform a Selection of Pieces at intervals. Violin, Mr. E. FREWIN. Cornet, Mr. W. TINNEY. Bass, Mr. INCE. Piano, Mrs. PEILE. Harmonium, Mr. GIBBONS, who will play upon one of Messrs. GILBERT & BAUER's grand improved double-touch Harmoniums.

THE CHOREUTOSCOPE; OR, LANTERN ACTOR.

The Choreutoscope (from *χορευτής*, a dancer), is the invention of Mr. J. BEALE, of Greenwich, and is the instrument used with such grotesque effect in the "Mystic Scroll" and other entertainments, to give life-like movements to gesticulating or dancing figures. The mechanism is exceedingly ingenious, and consists of a circular disc, made to revolve with great rapidity and force, the action of which is suddenly checked by an apparatus somewhat resembling the duplex action of a watch. Two Choreutoscopes are used in the above-named entertainment, one of which is an improved instrument, kindly lent by Messrs. BAKER, the Opticians, of Holborn, who have been entrusted by Mr. BEALE with the manufacture, and who state that they are enabled to adapt the mechanism to any lantern.

PRITCHARD'S PATENT KALEIDOGRAH

This beautiful little instrument is the invention—after years of patience—of Mr. PRITCHARD, of Richmond, and is exhibited by the London Stereoscopic Company. Its object is to exhibit, in an appreciable and useful form, all the wonderful combinations to be met with in the well-known toy called the Kaleidoscope. A few (about twenty) pieces of broken glass are placed in a revolving slide, and are reflected on to a ground glass disc, by means of three slips of looking-glass fixed at right angles. The effect is beautiful in the extreme. It may please the curious to know that any enquiring person who is desirous of ascertaining how many changes of pattern may be made by one slide of twenty pieces of glass would have to sit in front of the instrument twelve hours a day for *several millions of years* before all the varieties could be seen: the number of changes being somewhere about 2432902008176640000!

THE PATENT GAS & AIR ENGINE.

Common Coal Gas mixed with atmospheric Air, in such proportions as to form a mild explosive compound, is admitted under a piston, which slides airtight in a vertical cylinder open at the top. The compound is ignited by a simple gas jet, explodes, and the explosion drives the piston upwards against the pressure of the atmosphere. The ignited gasses being cooled, condense and form a partial vacuum underneath the piston, which the pressure of the atmosphere then causes to descend. The upward stroke of the piston is instantaneous and unresisted by the load upon the engine; but the work done during the return stroke yields the motive power, being transferred to the driving shaft by suitable mechanism. This utilization of the instantaneous force of explosion, is the basis of the wonderful economy of these engines; the cost of gas being guaranteed not to exceed one penny per horse power per hour, with gas at 4s. per 1000 feet. The gas used is exactly in proportion to the load upon the engine, the speed of the driving shaft being kept constant against variable resistance by regulating the number of explosions per minute.

The Engineer will be happy to give any particulars of this remarkable engine, which is exhibited by the General Engine and Boiler Company, Union Court, Old Broad Street.

THE CENTRAL HALL contains many objects of interest, amongst which will be found:—

- 1.—MACHINERY IN MOTION. (The Engineer is always at hand to afford information.) The GIANT PLATE MACHINE, and splendid Apparatus.
- 2.—GLASS MODELLING AND SPINNING, by Mr. HUDSON.
- 3.—The MAGNETO ELECTRIC MACHINES, presided over by Mrs. BAKER.
- 4.—The Stall for CONJURING APPARATUS, &c., &c. Mr. PROSKAUER is always ready to give a lesson, either at the Polytechnic or at Evening Parties.
- 5.—Stall for the celebrated POLYTECHNIC CEMENT, by Mr. G. DAVIES.
- 6.—PATENT GAS AND AIR ENGINE. See page 10.
- 7.—Case containing a collection of ARTISTIC PRODUCTS of India, China and Japan, exhibited by Mr. A. INMAN, Oriental Depot, 17, Ebury Street, S.W.
- 8.—The GREAT TANK, with the DIVING BELL.—The MONSTER COIL.
- 9.—THE KALEIDOGRAH.
- 10.—MANY USEFUL INVENTIONS DEMONSTRATED DAILY.

In the GALLERY round the Hall will be found:—

- 1.—The magnificent GEOLOGICAL MODEL, showing the working of Mines, &c.
- 2.—ART MODELS, by Messrs. HANCOCKS.
- 3.—LITHOGRAPHIC PRINTING, & the Ceramic Petalocaust Process, by Mr. COX.
- 4.—The Stall for PHANTOSCOPES and ZOETROPES, by Mr. WINDSOR.
- 5.—The Stall for MAGIC LANTERNS and SCIENTIFIC TOYS, by Mr. KENNETT.
- 6.—A Stand of ELECTRIC BELLS, by Messrs. OFFORD & Co., Tichfield Street.

THE REFRESHMENT DEPARTMENT

Is under the direction of Mr. COUSENS. It is as well that Country Visitors, and Visitors generally, should be aware that Refreshments of all kinds—Luncheon, Dinner, Tea and Coffee, can be had at all hours, without leaving the building.

TARIFF.—NO CHARGE FOR ATTENDANCE.

SOUPS.		s.	d.	TEA and COFFEE always ready.		s.	d.
Ox-tail, Mock Turtle, Julienne ...	1	0		Cup Tea	0	6	
				„ Coffee	0	4	
Chop, Potatoes, Bread	1	0		WINES.			
Steak „ „	1	4		Champagne, quarts	5	0	
Cold Roast Beef (per plate)	0	10		„ Moist and Chandon	9	0	
Ham „ „	1	0		„ G. H. Mumm Carte			
Sandwich	0	2		„ Blanche			
Roll and Cheese	0	3		„ Perrier Jouet			
Roll and Butter	0	2		Do. „ pints	5	0	
Bun	0	1		Sparkling Moselle, quarts	5	0	
Bath Bun	0	2		„ „ pints	2	9	
Sausage Roll	0	2		Claret—good sound—quarts	2	6	
And all other kinds of Pastry.				Do. „ pints	1	6	
Bass' Ale and Reid's Stout on draught, per pint	0	4		Do. „ large glass	0	4	
Bottled Ale (Bass) Imperial pint	0	6		Port, Sherry, &c., per glass	0	6	
Guinness' Stout, Imperial pint	0	6		SPIRITS.			
Lemonade and Ginger Beer	0	4		Brandy „ per glass...4d. &	0	6	
(H. D. Rawlings')	0	4		Whisky, Gin & Rum „	0	4	
Soda and Seltzer Water	0	6		Cherry Brandy „	0	6	

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For mofd rea Dandmy ste Ry,
Sa yho Wima pwea Lth ybe!

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