

Wm. BELCHER & SON, WHOLESALE TEA DEALERS,

Patron:—H.B.H. the Prince of Wales.

ROYAL POLYTECHNICInstitution,  Limited,

309, REGENT STREET, W

PROGRAMME OF
Lectures and Entertainments
FOR THE WEEK COMMENCING SEPTEMBER 15, 1879.

GENERAL INSPECTION.
 STOKES ON MEMORY.
 SUN LANGUAGE & FLASHING SIGNALS.
 THE CHEMISTRY OF COAL.
 THE ZULUS AND ZULULAND.
 CAVES AND CREVICES.
 THE WATCH AND ITS HISTORY.
 JUVENILE CONCERT.
 DRAMATIC & HUMOROUS READINGS.
 THE DIVER AND DIVING BELL.
 CURRIED PRAWNS.

*For Times and full details see subsequent pages.***SIX PRIZE MEDALS.**

BRYANT & MAY'S

MATCHES.

SIX PRIZE MEDALS.

The NEW FAMILY MATCH SAFE, for BRYANT & MAY'S PATENT SAFETY MATCHES, supplies a want that has long been felt, and will be adopted at once by all careful Housekeepers. It is very Ornamental, and made to contain Three Dozen Boxes of Bryant and May's Patent Safety Matches, and Three of the Metal Match Cases, and can be obtained from any Grocer or Oilman, filled and fitted complete, for 2s. 6d. It is strong and damp-proof, and should be found in every Store-Room.

POLYTECHNIC COLLEGE AND EDUCATIONAL DEPARTMENT.....page 16.

PRINTERS: WARREN HALL & JAMES J. LOVITT, 88, CAMDEN ROAD, N W

THE BEST IN THE TRADE. 2, HOLLES STREET, OXFORD STREET, W.

GOOD BLACK TEA, 2s. PER POUND, ABSOLUTELY

HEALTH,
STRENGTH
AND
ENERGY.

DR. LALOR'S PHOSPHODYNE.

Trade Mark—
PHOSPHODYNE.

Discovered and so named A.D. 1862 by R. D. LALOR, M.D.

Pleasant to the Taste. Nature's Brain and Nerve Invigorator.

The only safe, prompt and reliable PHOSPHORIC Remedy for overworked brain, worry, anxiety, excitement, late hours, business pressure, nervous prostration, consumptive, stomach and liver complaints.

PHOSPHODYNE

Purifies and enriches the blood, clears the skin, thoroughly invigorates the brain, nerves and muscles, imparts energy and fresh vitality to the exhausted Nervo-electric force, and rapidly cures every form of nervous debility, paralysis, nervous, mind and heart disease, from whatever cause.

Sold in Bottles at 4/6 & 11/-, by all the London Export and Wholesale Houses and Chemists.

Pamphlet on the Phosphoric Treatment, with Cures, post free from

DR. ROBERT D. LALOR,

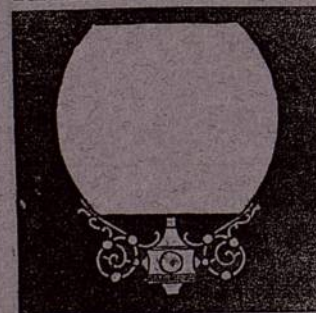
BAY HOUSE, 32, GAISFORD STREET, LONDON, N.W.

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Only GOLD MEDAL for Gas Burners.

PARIS EXHIBITION, 1878.

PATENT "CHRISTIANA."

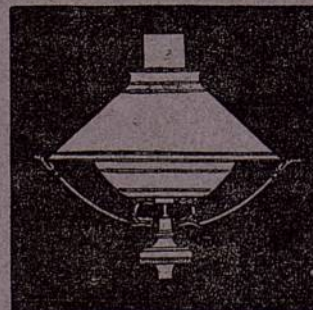


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SILENT LIGHT.**

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PATENT "LONDON" ARGAND.



Burner and Frankfort Albatrine Shade

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BRIGHTON.

CHEAP TRAINS EVERY SUNDAY, AND EVERY WEEK DAY.

From	A.M.	From	A.M.
From Victoria	8.50	From Liverpool St.	8.35
" Clapham Junction	8.55	" Shoreditch	8.40
" East Croydon	9.20	" Whitechapel	8.42
" London Bridge	8.55	" Shadwell	8.44
" New Cross	9.0	" Wapping	8.46
" Norwood Junction	9.15	" Rotherhithe	8.48
		" Deptford Road	8.50
Fares from London Bridge, Victoria, Clapham Junction, East Croydon, New Cross, Norwood Junction, Day Return Tickets			
" Deptford Road, Rotherhithe and Wapping, Day Return Tickets			
" Shadwell, Whitechapel, Shoreditch, Liverpool Street, Day Return Tickets			
RETURNING FROM BRIGHTON AT 7.10 P.M.			

PORTSMOUTH & THE ISLE OF WIGHT.

CHEAP TRAINS EVERY SATURDAY.

FROM VICTORIA, 1.0 p.m., calling at Clapham Junction, 1.5 p.m.			
FROM KENSINGTON, 12.45 p.m., calling at West Brompton, Chelsea, and Battersea.			
FROM LONDON BRIDGE at 2.30 p.m., calling at New Cross, 2.37 p.m.; and Croydon, 2.54 p.m.			
RETURNING the following TUESDAY, from PORTSMOUTH HARBOUR, 5.5 and 6.50 p.m., PORTSMOUTH TOWN, 5.15 & 6.55 p.m., South Hayling, 4.40 p.m., Havant, 5.30 & 7.10 p.m.			
FARES THERE AND BACK.	1st Class.	2nd Class.	Parly.
To Portsmouth Town, Hayling Island, and Havant....	11/-	7/6	5/-
To Portsmouth Harbour	12/-	8/-	5/6
To Ryde	13/8	9/10	7/4

CHEAP TRAINS EVERY SUNDAY.

FROM LONDON BRIDGE, 8.25 a.m.; VICTORIA, 8.20 a.m.; calling at Clapham Junction, 8.25 a.m.; Epsom, 9.0 a.m.; Leatherhead, 9.5 a.m. Dorking, 9.10 a.m. Also from Cheam, 7.30 a.m.; and Ewell, 7.35 a.m.
RETURNING from PORTSMOUTH HARBOUR, 5.40 p.m., PORTSMOUTH TOWN, 5.50 p.m., and from HAVANT at 6.0 p.m.

CHEAP TRAINS EVERY MONDAY.

FROM LONDON BRIDGE, 6.50 a.m.; VICTORIA, 6.40 a.m.; calling at Clapham Junction, 6.45 a.m.; Sutton, 7.10 a.m.; Dorking, 7.30 a.m. Also from Cheam, 6.40 a.m.; Ewell, 6.45 a.m.; Epsom, 6.50 a.m.; and Leatherhead, 7.0 a.m.
FROM KENSINGTON, 6.5 a.m., calling at West Brompton, Chelsea, and Battersea.
RETURNING from Portsmouth Harbour, 4.40 and 7.10 p.m., Portsmouth Town, 4.50 and 7.20 p.m., South Hayling, 4.40 p.m. and 7.0 p.m., and from Havant at 5.0 and 7.30 p.m.
FARES to Portsmouth Town, Hayling Island, or Havant and back..... 1st Class, 11s. 2nd Class, 7s. 6d. Parly. 5s.
FARE to Portsmouth Harbour and back 1st Class, 12s., 2nd Class, 8s., Parly., 5s. 6d.

TO EASTBOURNE, ST. LEONARDS & HASTINGS.

CHEAP DAY TICKETS are issued every Week Day by certain Trains, as under:—

From Kensington	9.33 a.m.			
" Victoria	10.5			
" Clapham Junction	10.12			
" London Bridge	10.10			
" Croydon	10.30			
		First Class	15/-	Second Class 11/6 Third Class 7/6
		"	14/-	" 11/- " 7/-

The London Tickets are available to return by the 7.25 p.m. Hastings, 7.27 p.m. St. Leonards (Warrior Square), 7.32 p.m. St. Leonards (West Marina), and 7.45 p.m. Eastbourne Train on the day of issue only, or by the Ordinary Trains on payment of half the difference between the Return Fares. The Croydon Tickets are available to return by any Train without extra payment.

LONDON BRIDGE TERMINUS.

(By order) **J. P. KNIGHT,**
General Manager.

POLYTECHNIC.

In view of the great interest manifested just now in Agriculture, the Directors have decided to produce a Lecture, entitled—

FOLLOWING THE PLOUGH;

Which will embrace a review of Ancient and Modern modes of Tilling the Ground, and will include an account of the most recent Implements for Farming by Steam Machinery. The Lecture will be illustrated by beautiful Models, Views, and Photographs, from the most authentic sources.

The Directors also announce a short Lecture, entitled—

HOW TO RAISE THE VANGUARD;

Which will introduce some novel experiments in the Large Tank, as recently shown by the inventor of the system (Mr. T. A. Dillon,) to H.R.H. the DUKE OF EDINBURGH.

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CADBURY'S

The reason why so many are unable to take Cocoa is, that the varieties commonly sold are mixed with Starch, under the plea of rendering them soluble; while really making them thick, heavy, and indigestible. This may be easily detected, for if Cocoa thickens in the cup it proves the addition of starch. Cadbury's Cocoa Essence is genuine, it is therefore three times the strength of these Cocons, and a refreshing Beverage like Tea or Coffee.

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PURE. SOLUBLE. REFRESHING.

SPEARMAN AND SPEARMAN (Plymouth) devote their exclusive attention to the production of pure Wool Materials for Ladies' and Gentlemen's wear, and warn the public to BEWARE of imitations of their Royal Devonshire Serge, which is declared by the Queen to be altogether unrivalled in appearance, hard wear and utility.



ROYAL DEVONSHIRE SERGE

PRODUCED in NEW COLOURS, NEW MIXTURES and SHADES, in Pure Wool only, for the Autumn of 1879, unequalled for Ladies' Dresses; also extra milled and strengthened for Gentlemen's and Boys' Suits. It is the true Yachting Serge.

"SEA WATER CANNOT HURT IT."

All the latest Colours and Mixtures. Pattern Books post-free. State whether for Ladies' or Gentlemen's wear. Any length cut, and carriage paid to London, Dublin, Belfast, Cork, or Glasgow.

Prices for Ladies' wear, 1s. 6d., 1s. 11d., and 2s. 3d. the yard; for children's wear, in White and Navy Blue, 1s. 3d. per yard; for Gentlemen's, Boys' and Yachting Suits, from 2s. 11d. the yard, 54 inches wide.

SOLE FACTORS,
SPEARMAN & SPEARMAN,
(ONLY ADDRESS) PLYMOUTH.

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BLACK LEAD
GOLD MEDAL.

E. JAMES & SONS,
SOLE MAKERS,
PLYMOUTH.

CLEAN! NO DUST!

The DOME BLACK LEAD differs from the ordinary kinds in the following IMPORTANT POINTS—

It is manufactured only from selected materials of the BEST QUALITY, and being prepared by a special process, it not only POLISHES QUICKLY, but also adheres at once to the stove or grate, thereby AVOIDING INJURY TO THE FURNITURE from dust. Sold by Grocers & Oilmen everywhere.

SOLD BY GROCERS &c

For the Week commencing September 15, 1879.

The Time Table will be adhered to if possible, but, if necessary, the **order** of the Programme may be varied.

MONDAY Morning.—Open from 12 till 5.

O'CLOCK.

- 12.0—General Inspection of Models, Machinery, Cosmoramaic Views, &c.
- 12.30—Stokes on **Memory**.....*Large Theatre.*
- 1.0—The **Watch and its History***Large Theatre.*
Mr. CARTERSyllabus, see page 10.
- 1.45—Interval of a quarter of an hour for **Refreshments.** See page 13.
- 2.0—The **Zulus and Zululand**.....*Large Theatre.*
Mr. W. R. MAYSyllabus, see page 11.
- 2.50—Descent of the **Diver***Large Tank.*
- 3.10—**Juvenile Concert**.....*Great Hall.*
MADLLES. & MASTER PAGGI...Syllabus, see page 10.
- 3.45—**Diving Bell**, with **Music** by the Band*Great Hall.*
(Fee for descending in the Bell, 6d.)
- 4.0—**Curried Prawns**, a Dyspeptic Illusion, written
by F. C. BURNAND, Esq*Large Theatre.*
Mr. T. C. HEPWORTH ...Syllabus, see page 8.

MONDAY Evening.—Open from 7 till 10.

- 7.0—General Inspection of Models, Machinery, Cosmoramaic Views, &c.
- 7.10—**Dramatic and Humorous Readings***Large Theatre.*
Miss GERTRUDE KELLOGG.
- 7.30—**Caves and Crevices in the Earth's Crust** ...*Large Theatre.*
Mr. T. C. HEPWORTH.....Syllabus, see page 11.
- 8.0—**Diving Bell**, with **Music** by the Band.....*Great Hall.*
(Fee for descending in the Bell, 6d.)
- 8.15—Twenty-second Royal Polytechnic **Monday Concert**...*Large Theatre.*
Programmes of the Concert can be had of the Attendants, price 1d.
- 8.45—Interval of a quarter of an hour for **Refreshments.** See page 13.
- 9.0—**Curried Prawns**, a Dyspeptic Illusion, written
by F. C. BURNAND, Esq*Large Theatre.*
Mr. GEORGE BUCKLAND...Syllabus, see page 8.

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- 3.0—**Performance on the Electric Organ***Large Theatre.*
Mr. R. T. GIBBONS.
- 3.15—**Dramatic and Humorous Readings***Large Theatre.*
Miss GERTRUDE KELLOGG.
- 3.45—**Diving Bell**, with **Music** by the Band*Great Hall.*
(Fee for descending in the Bell, 6d.)
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- 12.0—General Inspection of Models, Machinery, Cosmoramic Views, &c.
- 12.30—Stokes on Memory.....*Large Theatre.*
- 1.0—The Chemistry of Coal.....*Large Theatre.*
Mr. J. L. KINGSyllabus, see page 9.
- 1.45—Interval of a quarter of an hour for Refreshments. See page 13.
- 2.0—The Zulus and Zululand.....*Large Theatre.*
Mr. W. R. MAY.....Syllabus, see page 11.
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- 7.0—General Inspection of Models, Machinery, Cosmoramic Views, &c.
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THE MODERN METEMPSYCHOSIS,

Invented by JAMES J. WALKER, Esq., & PROF. PEPPER.

A NEW AND ORIGINAL ENTERTAINMENT,

ENTITLED

CURRIED PRAWNS:

A DYSPEPTIC ILLUSION.

WRITTEN BY F. C. BURNAND, ESQ.,

AND GIVEN BY

MR. GEORGE BUCKLAND.

The Dissolving Views, from "Faust," have been painted especially by Mr. W. R. HILL, from designs by R. LEITCH; the interiors drawn by Mr. E. T. GREEN. The View of The Gaming Table (by the kind permission of Messrs. GRAVES & SON), the Race Course and others Photographed and Painted by Mr. JOHN GREEN.

The Music written and arranged by Mr. E. FREWIN.

The Song, "Love and the Cuckoo," sung by MISS DALE, composed by WILLIAM BORDERS.

NEW EXPERIMENTAL LECTURE, THE CHEMISTRY OF COAL AND ANILINE COLOURS,

BY
MR. J. L. KING.

Illustrated by Specimens and many striking and beautiful Experiments.

SYLLABUS.—A Lump of Coal—What is its History?—The Origin of the Coal Beds—An Ideal Forest—Coal Plants—Irish Peat Bogs—How they are formed—Moss—Brown and Black Peat—The Products of Coal—Gas—Liquor—Tar—What do they yield?—The Coal Water—Salts of Ammonia—The Tar—Three sets of Products—Naphtha—Dead Oil—Pitch—Their properties and applications—Coal Tar Naphtha—The Process of Distillation—Benzine discovered by Faraday—The formation of Nitro-Benzine—The transforming power of the Chemist—Aniline—Its wonderful power of developing colour when combined with certain bodies—Early Experiments—Mauve—The formation of Magenta—A Collection of Colouring Bodies—Silks Dyed with these Colours—How Cotton can be Dyed—Great Tinctorial powers of these Matters—Carbolic Acid—Picric Acid—Anthracene—Alizarine—A striking Illustration of the Story of Coal Tar Colours—The Revelations of our Lump of Coal.

A NEW SCIENTIFIC EXPERIMENTAL LECTURE,

SUN LANGUAGE & Flashing Signals,

By Mr. J. L. KING.

Showing the construction and working of the Heliograph, and how Lord Chelmsford communicated with Colonel Pearson at Ekowe.

Illustrated with Flashing Signal Apparatus, kindly lent by Messrs. W. Nunn & Co., Signal Lamp Manufacturers, 204 & 205, St. George's Street, London Docks, E.

SYLLABUS.—Colonel Pearson's Condition at Ekowe—The Importance of the Communication between Lord Chelmsford and Colonel Pearson—How they made use of the Sun's Voice—What is this Language to which the Sun gave Voice?—One of the chief Characteristics of Modern Science is a Great and Beautiful Simplicity—Winks and Broad Stares—Short and Long Flashes—The Construction of this Flashing Signal Language—The Table of Flashes—The Code of Signals—How Long Messages are Simplified—The Heliograph—Its Construction and Action—How it was used at Ekowe—The Means of Signalling Fifteen Miles when there is no Sun—Day and Night Signals on Land and at Sea—The Naval Pattern Lamp—The Chatham Light—How Communication is Perfectly Maintained in Foggy Weather.

INSTRUMENTAL CONCERT,

By Juvenile Performers,

WITH SELECTIONS FROM THE FOLLOWING:—

QUARTETTE..... Overture to "Giovanna d'Arco." *Verdi.*
 QUARTETTE..... Scena Finale "Lucia." *Donizetti.*
 QUARTETTE..... Fantasia on the "Opera Belisario." *Donizetti.*
 QUARTETTE..... Finale "Sonnambula." *Bellini.*
 GRAND DUET (Violin and Flute) on the Opera "Norma." *Bellini.*
 SOLO (Flute)..... "The Rising of the Lark." *Carte.*

PIANOFORTE..... MADLLE. PAGGI.
 VIOLIN..... MADLLE. JOSEPHINE PAGGI.
 FLUTE MADLLE. ANITA PAGGI.
 VIOLONCELLO MASTER L. F. PAGGI.

THE

WATCH AND ITS HISTORY;

Lecture by MR. A. J. CARTER.

SYLLABUS.—Time always Recorded—The Sun-dial—Liquid Time-keepers—The Source of Motion in Watches—Its Action on the Wheels—Ancient Horology—The Verge Movement—Lever Escapement as compared with other Escapements—The importance of Lubrication—Watches Bewitched—And
 THE WATCH IN MOTION.

Most of the Appliances have been kindly lent by Mr. STREETER, of 18, New Bond Street.

IN PREPARATION, A LECTURE UPON

COMIC PICTORIAL ART,

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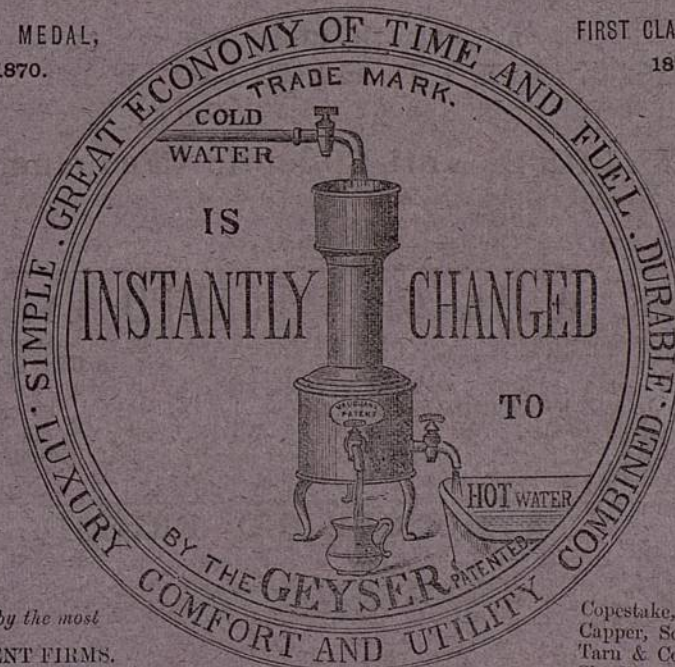
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