

No. 274.

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ROYAL POLYTECHNIC

Institution,  Limited,

309, REGENT STREET, W.

PROGRAMME OF Lectures and Entertainments

FOR THE WEEK COMMENCING APRIL 15, 1879.

MUSICAL PROMENADE.
NEW INVENTIONS.
CLAY AND THE POTTER.
TORPEDO WARFARE.
CHEMISTRY OF THE SUN.
OXY-HYDROGEN MICROSCOPE.
CLEOPATRA'S NEEDLE.
THE TELEPHONE.
HAYLING ISLAND.
BULGARIA AND ITS PEOPLE.
THE DIVER AND DIVING BELL.
FEEDING THE SEAL.
THE PILGRIM'S PROGRESS.

For Times and full details see subsequent pages.

PROTECTION FROM FIRE.



POLYTECHNIC COLLEGE AND EDUCATIONAL DEPARTMENT.....page 16.
LABORATORY AND DEPARTMENT OF EXPERIMENTAL SCIENCE.....13.

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OAKEY'S WELLINGTON KNIFE POLISH

Prepared expressly for all 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. No dust or annoyance in the use. Sold in Packets, 3d. each; and Tins, with Perforated Tops (to prevent waste) 6d., 1s., 2s. 6d., and 4s. each.

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Prevent Friction in Cleaning and Injury to the Knife, the India Rubber forming an Elastic Medium between the Knife and the Board.

PRICE FROM 1s. 6d. EACH.

"OAKEY'S WELLINGTON KNIFE POLISH" SHOULD BE USED WITH THESE BOARDS.

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s expressly prepared for Cleaning and Polishing SILVER, ELECTRO-PLATED and BRITANNIA METALS, TIN, ZINC, PLATE GLASS, GAS GLOBES, ANY KIND of CUT GLASS, MARBLE, &c., &c.

The Manufacturers can with confidence recommend this Article for any of the above purposes, and guarantee its being perfectly free from MERCURY OR ANY OTHER OF THE INJURIOUS INGREDIENTS too frequently used in the manufacture of Plate Powder.

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EMERY CLOTH, BLACK LEAD,
CABINET GLASS PAPER &c,

WELLINGTON, EMERY, AND BLACK LEAD MILLS,
WESTMINSTER BRIDGE ROAD, LONDON, S.E.

NALDIRES TABLET,

A Medicated Soap (free from Poison)

FOR WASHING DOGS.

DESTROYS FLEAS,

CLEANSSES THE SKIN,



REMOVES ALL SMELL,

GIVES GLOSS TO

THE COAT.

RECOMMENDED FOR BOTH SPORTING & PET DOGS.

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"A CLEAR SKIN AND GLOSSY COAT."—"I have found it most thoroughly to answer in destroying fleas, leaving the skin beautifully white and the coat glossy, at the same time doing no harm to the dog. I do not think anyone possessing a dog of value should be without Naldire's Tablet."

EDGAR HANBURY, Esq.

"ALL VERMIN ERADICATED."—"I have always found Naldire's Dog Soap cleanse the skin beautifully, and eradicate all vermin." A. B. ASHFORD, Esq., Ealing.

"WHITE AS SNOW."—"After washing my Pomeranian with Naldire's Tablet he looks beautiful—as white as snow. I very highly prize the Soap, and I do not think there is any other preparation for washing dogs to equal Naldire's Tablet."

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Is sold in large Tablets, price 1s., by all Chemists and Perfumers.

N.B.—Ask for NALDIRES DOG SOAP, and beware of low-priced imitations, which are worthless.

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SILENT SEWING MACHINE.

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ROYAL

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The Guns of the Period,

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AND

A Day in London.

ALSO IN PREPARATION, TO SUCCEED THE
PILGRIM'S PROGRESS,

THE

SIEGE OF TROY,

WITH

New Scenery and Effects.

RESERVED SEATS:

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STALLS DO. LOWER BALCONY, ONE SHILLING.

PRIVATE BOX, TO HOLD FOUR OR SIX, 10s. 6d.

IN THE SMALL THEATRESIXPENCE.

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on application to the Secretary, at 10s. 6d. each.

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BR

For the Week commencing April 15, 1878.

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, Cosmorama Views, &c.

12.20—New Inventions Demonstrated.....*Great Hall.*
See page 11.

12.50—Torpedo Warfare.....*Large Theatre.*
MR. J. L. KINGSyllabus, see page 8.

1.30—Interval of a quarter of an hour for Refreshments. See page 12.

1.50—Cleopatra's Needle*Large Theatre.*
MR. W. R. MAYSyllabus, see page 10.

2.30—The Telephone*Science Theatre.*
MR. J. L. KINGSyllabus, see page 8.

3.5—Descent of the Diver*Large Tank.*
Music by the Band*Great Hall.*

3.15—Hayling Island.....*Large Theatre.*
MR. J. L. KINGSyllabus, see page 10.

3.40—Feeding the Seal*Large Tank.*

3.45—Diving Bell, Music by the Band*Great Hall.*
(Fee for descending in the Bell, 6d.)

4.0—The Pilgrim's Progress.....*Large Theatre.*
MR. H. PROCTOR.....See page 9.

Book of the Words may be had of the Attendants, Price 3d.

MONDAY Evening.—Open from 7 till 10.

7.0—General Inspection of Models, Machinery, Cosmorama Views, &c.

7.10—The Telephone*Science Theatre.*
MR. J. L. KING.

7.45—Musical Promenade.....Syllabus, see page 9. *Great Hall.*

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12.50—Oxy-Hydrogen Microscope*Large Theatre.*
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Descent of the Diver*Large Tank.*

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MR. J. L. KINGSee page 8.

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MR. J. L. KING.....Syllabus, see page 10.

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Professor E. V. GARDNERSyllabus, see page 8.

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MR. E. WILKIE.

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Mr. W. R. MAY.....Syllabus, see page 10.

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9.0—The Pilgrim's Progress *Large Theatre.*
Mr. H. PROCTOR. See page 9.

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THE CHEMISTRY OF THE SUN,

With grand Spectrum Analysis Experiments and an
entirely novel and elegant application of

THE GHOST ILLUSION,

To the production of the more natural imitations of the
IMPOSING PHENOMENA seen during

A TOTAL ECLIPSE,

BY

PROFESSOR PEPPER.

Appropriate Music by E. FREWIN, Esq., performed by the
Polytechnic Band, with the Electrical Organ.

Spectrum Analysis and all the New Discoveries in Solar
Physics, will be Illustrated by New Optical Apparatus, and the
ELECTRIC LIGHT from a powerful Battery.

For the Week commencing April 15, 1878.

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SATURDAY Morning—Open from 12 till 5.

O'CLOCK.

- 12.0—General Inspection of Models, Machinery, Cosmoramic Views, &c
12.20—New Inventions Demonstrated. *Central Hall.*
See page 11.
12.50—Oxy-Hydrogen Microscope *Large Theatre.*
Mr. J. L. KING.
1.30—Interval of a quarter of an hour for Refreshments. See page 12.
1.45—Music by the Band. *Great Hall.*
Descent of the Diver *Large Tank.*
2.0—The Telephone *Science Theatre.*
Mr. J. L. KING
2.30—Hayling Island *Large Theatre.*
Mr. J. L. KING. Syllabus, see page 19.
2.55—Clay and the Potter..... *Science Theatre.*
Professor E. V. GARDNER Syllabus, see page 8.
3.40—Feeding the Seal *Large Tank.*
3.45—Diving Bell, with Music by the Band..... *Great Hall.*
(Fee for descending in the Bell, 6d.)
4.0—The Pilgrim's Progress..... *Large Theatre.*
Mr. H. PROCTOR. See page 9.
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Mr. E. WILKIE.
7.45—Musical Promenade Syllabus, see page 9. *Great Hall.*
8.0—Chemistry of the Sun *Large Theatre.*
PROFESSOR PEPPER.
8.50—Diving Bell *Great Hall.*
(Fee for descending in the Bell, 6d.)
9.0—Interval of a quarter of an hour for Refreshments. See page 12.
9.15—The Pilgrim's Progress *Large Theatre.*
Mr. H. PROCTOR. See page 9.
Book of the Words may be had of the Attendants, Price 3d.

CLAY AND THE POTTER; A NEW LECTURE, *Pictorially and Practically Illustrated.*

BY

PROFESSOR E. V. GARDNER,
F.A.S., M.S.A.

SYLLABUS—The Ancient Art of the Potter—Longfellow's Poem—The Potter's Wheel—Pottery found at Thebes and Ben Hassan—Potter's Work 4000 years old—The Ancient Potter's Operations—The Modern Potter's very similar—The Excavations at Campana—Potter's Art—*Three processes*—Throwing—Pressing Moulding—The Lambeth Potteries—Description of the Works of MESSRS. STIFF & SONS at Lambeth, visited by Professor Gardner—The nature of Clay—Varieties of Clay—Preparations of Clay—*Slip—Dough*—Manipulations of the Dough—Turning—Whitehard or Greenhard—Firing—Glazing—The Discovery of Salt Glaze—Poisonous and non-poisonous Glazes—Chemical action of glaze—Samples of Ancient Pottery, compared with the elegancies of Modern Art—The Barberini or Portland Vase—Pallisy, the Enthusiastic Potter—His success—England's Potters, Wedgwood, &c.

The lecture will be fully illustrated by examples of Pottery, furnished by MESSRS. J. STIFF & SONS, and a Potter and Potter's Wheel will show the stages in the production of familiar articles of Pottery Ware.

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SELECTION.....	"Stabat Mater."	Rossini.
WALTZ.....	"Der Müllbach."	Waldstein.
MARCH.....	"Bridal."	R. T. Gibbons.
MAZURKA.....	"La Fleur du Soliel."	A. H. Pitman.
WALTZ.....	"Rosalie."	E. C. Frewin.
MARCH.....	"Impromptu."	R. T. Gibbons.
WALTZ.....	"Summer Morgen."	Waldstein.
MAZURKA.....	"Rosa."	E. C. Frewin.
MARCH.....	"Plevna."	R. T. Gibbons.
WALTZ.....	"Reign of Love."	E. C. Frewin.

BUNYAN'S

PILGRIM'S PROGRESS

Adapted by W. G. WILLS.

GIVEN BY MR. H. PROCTOR,

Assisted by MISSES MARION VERE, LOTTI VERONA, MINNIE CLIFFORD, ELLEN BAILEY; MESSRS. W. FULLER, C. MARSDEN, W. HIGGS, &c. The Scenery by E. T. GREEN. The Dresses by Miss CLIFFORD.

SYLLABUS.—Christian with his Family—His Departure—His direction to the Wicket Gate—In company with Obstinate and Pliable—The Slough of Despond—Help—Worldly Wise—Mount Sinai—

THE CROSS OF DELIVERANCE (*Set Scene*)—
Simple, Sloth and Presumption—The Hill Difficulty—Palace Beautiful—Christian armed—

THE VALLEY OF HUMILIATION (*Set Scene*)—
Piety and Charity bid him Farewell.
The Fight with Apollyon—Adam the First—Moses—Christ—

VANITY FAIR (*Set Scene*)—
The Mart—The Trial—Martyrdom of Faithful.
Doubting Castle—The Dungeon—The Valley of the Shadow of Death—Christian worn and dejected—

THE CELESTIAL CITY (*Set Scene*)—
The Welcome Home.

In consequence of the large amount of popular favour the Pilgrim's Progress has received, the Directors have determined to continue its representation through Easter.

HAYLING ISLAND,

HOW TO GET THERE, AND ALL ABOUT IT.

A New Spring Lecture,

By MR. J. L. KING.

Illustrated by Dissolving Views. Photographs by MR. J. MIDDLETON, of Holborn.

SYLLABUS.—Spring-time and Country Trips—Where to go to—Pleasant places—Start from London—Victoria—On the route—Box Hill—Dorking—Amberley Village—Amberley Castle—Arundel—Chichester—Havant—South Hayling—The Village—The Lane—The Hotel—From the Beach—The Beach itself—From the Hotel Gardens—The Church—The Old Yew Tree.

"CLEOPATRA'S NEEDLE;"

A History of 3,500 Years Ago.

BY

MR. WILLIAM R. MAY.

SYLLABUS.—Introduction—What is Cleopatra's Needle?—Egyptian Monuments—Pyramids and Obelisks—Birth-place of the Obelisks—Cairo—To Heliopolis—The Oldest Obelisk—Thebes; its Stupendous Ruins—The Obelisks at Karnak—Temple of Luxor and Obelisks—The Beautiful Island of Philæ; its Interesting Relics—Rome; its riches in Obelisks—The Obelisks of Florence—Constantinople and Paris—Cleopatra's Needles at Alexandria—Inscriptions on our Needle; its Removal—The Cylinder-ship "Cleopatra;" her Adventurous Voyage—Arrival in London—Where shall we put the Needle?

The Lecture will be illustrated by a brilliant Series of Dissolving Views.

ROCKWORK AND FERNERY

BY

DICK RADCLYFFE & CO.

The Great Tank and Entrance to the Cosmoramic Views have been decorated with IMITATION ROCKWORK, FERNERIES and FOUNTAINS, which will be found to present pictures of Sylvan beauty rarely excelled by Art.

This work has been entirely executed, at considerable expense, by Messrs. DICK RADCLYFFE & CO.

NEW INVENTIONS.

Demonstrated in the GREAT HALL (for hours see Time Table).

The SUN AUTO-PNEUMATIC GAS MACHINE.

This ingenious apparatus produces Gas of a highly illuminating quality, without the aid of either heat or fire. The operation is conducted automatically, and is not accompanied by any offensive smell, smoke or dirt. The apparatus is complete in itself, and can be kept in working order by an ordinary servant, and at a small expense for the Gas produced.

The SUN AUTOMATIC GAS LAMP.

The Lamp makes its own Gas as it burns it, and is complete without the usual necessary wick or chimney.—Gas made and burnt by this Lamp costs about 3s. per thousand cubic feet. Sun Company, 115, Southwark Street, S.E.

HICKLEY'S SELF-ACTING FIRE ALARM AND COMMUNICATOR.

This patent contrivance accomplishes the usual work of ringing bells, working signals, and, without the aid of Battery power. Once fixed and arranged it needs no further attention. The act of communicating with the apparatus produces the necessary power to work it, and that through any reasonable distance.

THE HUMAN ARM WRITER. MR. H. PAGE'S Patent.

For sending messages, in the sender's own hand-writing.

ATKIN'S PATENT CHEMICAL CARBON FILTERS.

Necessity of having Pure Water—Sources of Impurities—Classes of Impurities—Mechanical and Chemical—How to Remove these—Filtration—Efficient and Inefficient—The Chemical Carbon Filters. Explained and in operation.

HINK'S PATENT DUPLEX EXTINGUISHER.

By merely pressing a lever the flames are instantly extinguished, thereby avoiding the inconvenience of turning down the cottons, and removing the possibility of winding them into the oil. The cottons are protected from all dust and dirt when not in use, and all evaporation is entirely prevented. The unpleasant odour inseparable from the ordinary method of extinguishing hydro-carbon oil lamps is entirely removed.

BOYLE'S PATENT AIR PUMP VENTILATOR AND CHIMNEY COWLS.

The Air Pump Ventilator ensures perfect and constant ventilation. It is continuous in its action, and self-acting in every part. It entirely prevents draught. The Chimney Cowls are of two kinds, both well adapted for curing smoky chimneys. They are perfectly noiseless, there being no moveable parts in their construction.

CYCLOIDAL MACHINE. TISLEY'S APPARATUS.

This instrument traces curves representing musical intervals, and those corresponding to others which are not in unison.

The figures produced can be purchased, 1d. each.

For particulars of Demonstrations, Patents and New Inventions, applications to be made to PROFESSOR E. V. GARDNER, at the Institution.

A Patent Agent is attached to the Institution who may be consulted without fee.

THE NEW GRAND CONCERT

MODEL HARMONIUM,

In the Gallery, manufactured by Mr. GILBERT L. BAUER, of Tottenham Street, is built expressly for Concert purposes, and is constructed in the simplest possible manner, with a view to prevent its getting out of order. It is voiced with greater vigour than any other Harmonium, being capable of taking the part of most instruments in the Orchestra. It is specially adapted for Solo work, and by the aid of the Double Touch, together with the Fortés Pneumatic, effects can be produced hitherto unknown.

The Grand Prize Medal of the Philadelphia Centennial Exhibition has been awarded to GILBERT L. BAUER, the highest award for Harmonium.

THE GOLD MEDAL

PATENT PIANOS,

By Messrs. JOHN BRINSMEAD & SONS,

Have received the highest awards. The Grand Diploma of Honour, Paris, 1874; the Gold Medal, Paris, 1870, and many others. *Can be Hired on the 3 Years' System.* 18, WIGMORE STREET, LONDON, W.

One of these Pianos is played, daily, in the Large Theatre.

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
Chop, Potatoes, Bread	1	0	" Coffee	0	4
Steak "	1	4			
Cold Roast Beef (per plate)	0	10			
Ham "	1	0			
Sandwich	0	2			
Roll and Cheese	0	3			
Roll and Butter	0	2			
Bun	0	1			
Bath Bun	0	2			
Sausage Roll	0	2			
And all other kinds of Pastry.					
Bass' Ale and Reid's Stout on draught, per pint	0	4			
Bottled Ale (Bass) Imperial pint	0	6			
Guinness' Stout, Imperial pint	0	6			
Lemonade and Ginger Beer (H. D. Rawlings')	0	4			
Soda and Seltzer Water	0	6			

SPIRITS.

Brandy per glass...4d. &	0	6
Whisky, Gin & Rum "	0	4
Cherry Brandy "		

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PROF. E. V. GARDNER, F.A.S., M.S.A.,

Professor of Chemistry to the Institution, and Professor at Berners College of Technical and Experimental Science,

ASSISTED BY EFFICIENT MASTERS.

The Working Laboratory.

Open for Pupils, *Morning and Evening*, throughout the year. Students ill find every convenience for the study of Technical and Analytical Chemistry.

Analysis and Practical Investigations connected with Patents carefully conducted.

EVENING INSTRUCTION IN LABORATORY WORK.

SEPARATE CLASS ROOMS FOR LADIES.

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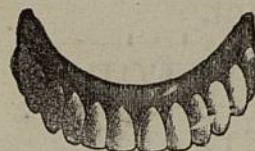
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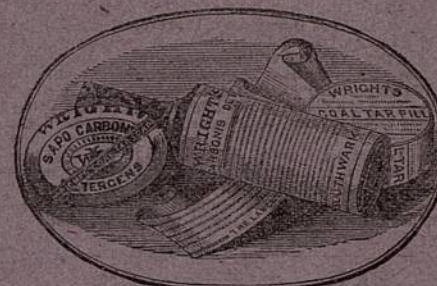
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