

THE MANAGERS of the ROYAL CORK INSTITUTION have great pleasure in announcing that they have made arrangements with the DIRECTORS of the ATHENÆUM, for the delivery IN THE GREAT HALL, of the following

SERIES OF LECTURES

EMBRACING THE MOST INTERESTING SUBJECTS CONNECTED WITH

The Latest Improvements in General Science

AND THEIR

APPLICATION TO THE USEFUL ARTS,

TO BE DELIVERED

IN THE ATHENÆUM,

BY PROFESSOR PARTINGTON,

OF LONDON.

For several years Scientific Lecturer to the Royal Panopticon of Science and Art, London; Professor of Experimental Philosophy; Editor of the "British Cyclopædia;" and Author of an extensive series of works on General Science.

At 2 o'Clock each day, and to be re-delivered at 8 o'Clock each evening.

POPULAR ILLUSIONS AND DELUSIONS EXPLAINED.

Lecture 1.—Monday, October 5th.

Introduction. How the Eye and Ear have been deceived by scientific ingenuity. Musical Marbles. Sympathy of Sound. Experiments of Chladni. Enchanted Lyre. Vision no certain test of reality in Physics. Spectral Illusions. Spirit of the Brecken. Extraordinary effects of Chemical Change. Illusions of gaseous compounds.

Lecture 2.—Wednesday, Oct. 7th.

Ancient and Modern Witchcraft. Powers of Electricity and Magnetism in their connection with the wonders of Science. Apparent phenomena of Life after Death. Extraordinary modes of producing magnets. Aids lent by Mechanical Magic in carrying out marvellous Illusions.

MARVELS OF EXPERIMENTAL SCIENCE IN CONNECTION WITH IMPROVEMENTS IN THE USEFUL ARTS.

Lecture 1.—Friday Oct. 9th.

Introduction. Day dreams of the Early Illuminati and Alchemical Philosophers. Lost Arts Restored. Progress of Scientific discovery. Great advantages found to arise from Men of Science going to the Laboratory of the Great Architect of Creation. What Optical Science has accomplished. Best modes of assisting Defective Vision. Telescope of the Earl of Rosse—its vast superiority to all preceding instruments.

Lecture 2.—Monday Oct. 12th.

Ingenious Apparatus devised by the Acoustical Philosopher to assist those who labour under deafness. Transmission of the Human Voice facilitated. How musical Instruments have been improved, and their construction simplified. What Science has effected for facilitating locomotion. Improvements lately introduced in America. Screw Propeller applied to Aerial Navigation. Apparatus for travelling under water. Success of M. Fyfe's iron Fish. Conclusion.

TRIUMPHS OF MODERN SCIENCE.

Lecture 1.—Wednesday Oct. 14th.

Ancient and Modern Science compared. Lord Ashburton's view of the "Science of Common Things." Great value of Experimental Illustration. How Science may be turned to most useful account. Its value to guide us in the use and abuse of Food. Importance as a beacon in our most refined enjoyments. Wonders of Scott Russell's New Ship. Ocean Telegraph.

Lecture 2.—Friday Oct. 16th.

Importance of Modern Science in explaining the phenomena of the Natural Kingdom. The Air we breathe. The Waters we drink, and the Globe we inhabit. Mode of Illustration adopted by the Lecturer in his work published under Royal Patronage.

WONDERS OF THE MATERIAL UNIVERSE AS ILLUSTRATIVE OF THE BEING AND ATTRIBUTES OF THE CREATOR.

This Course of Lectures is rendered clear and intelligible by a series of Scientific Experiments and Drawings.

Monday Oct. 19th

Introduction. Scientific Truths in harmony with Holy Writ. Discoveries since the publication of Dr. Paley's work confirmatory of this view. Proofs drawn from the Structure of the Universe, as well as that of the Globe we inhabit. Truthfulness of Geological deductions, as illustrative of Creative Benevolence. Striking Exhibitions of Design, drawn from various periods in the History of the World. God's Providence displayed in the adaptation of Structural Arrangement in the Animal and Vegetable Kingdom. Egregious mistakes made by Lord Monboddo, and the Author of "Vestiges." The latest discoveries in Physical Science opposed to the doctrines of Materialism. Illustrations of these important truths drawn from the Atmosphere that bathes and surrounds our globe. The Waters that beautify and irrigate its surface, and the Mineral Treasures so abundantly provided for the use of man. Conclusion.

THE PHILOSOPHY OF THE EARTH.

Wednesday Oct. 21st

Irregularity of the Earth's Surface produced by the combined agencies of Fire and Water. Volcanoes. Character of the Earth's Surface at different altitudes. Improvements arising from a knowledge of Physical Geography. Great advantage derived by the Geologist and Miner from a correct knowledge of Stratification. Vast importance of the Mineral treasures that abound in Great Britain. Best modes of working Mines in this Country, as compared with the Continent of Europe. Conclusion.

WONDERS OF THE EYE AND EAR.

Friday Oct. 23rd

Introduction. Nature of Light. Refraction and Reflection. Prismatic Spectrum. Cause of the Rainbow—under what circumstances it may be seen to most advantage. Optical Illusions. Fata Morgana. Mirages. Structure of the Eye, and Wonders of Vision. Improved Instruments for remedying defective Vision. Construction of Optical Instruments.

Wonders of the Mechanism of Audition. Best means of remedying defective Hearing. Immense distance to which sounds may be conveyed. Acoustics applied to Medicine. Stethoscope. Invisible Girl. Conclusion.

THE STEAM ENGINE, AND ITS APPLICATION.

Monday Oct. 26th

Introduction. Wonders of the Steam-Engine. Nature and operation of Elastic Vapour. Model of the Engine 2,000 years ago. Most important improvements by James Watt and others. Consumption of Smoke and Economy in Fuel. Safety Valve and Governor. Wonders of Steam Locomotion. Increase of speed in Carriages and Boats. Best means of Protecting Passengers from Explosions and other accidents.

The following Testimonials have been received by Professor Partington:—

LONDON LITERARY SOCIETY.

Resolved.—"That the Thanks of the Managers and Members of this Society be presented to Mr. PARTINGTON, for his admirable Lecture on the Structure and use of the Steam Engine."—JOHN WILKS, Secretary.

EXPOSITION OF ARTS, DEVONPORT INSTITUTE.

Resolved.—"That the Council avail themselves of the opportunity of a parting farewell to Professor PARTINGTON to express the high gratification which they have derived from the Course of Lectures, which that Gentleman has delivered before this Institution."—RICHARD C. SMITH, Hon Sec.

POLYTECHNIC INSTITUTE, NORWICH.

"The Committee of Management of the Norwich Polytechnic Exhibition have much pleasure in stating that entire satisfaction has arisen from their engagement with Professor PARTINGTON. The general interest and approbation which the public have manifested throughout the delivery of the Series of Lectures, which have been completed this day, fully justify the Committee in expressing their conviction that the style of illustration and arrangement of subjects adopted by Mr. PARTINGTON, are exceedingly well calculated to carry out the intention of the undertaking."—JOHN BARWELL, Chairman.

"I feel desirous of expressing to you, on the occasion of your departure from this city, the high gratification I have experienced in the privilege of hearing the Course of Lectures which you have completed this day. I never met with illustrations or witnessed experiments so well calculated by their simplicity and clearness to inform the mind of a general auditory."—A. BAYN POWEN, M.A., Clerical Principal of the Norwich Training Institution.

LONDON MECHANICS' INSTITUTION.

"I have the pleasure to inform you, that at a General Meeting of the Members, held on the 6th inst., the thanks of the Meeting were unanimously voted to you, for your admirable Lecture on the Application of Mechanical Science to the Useful Arts."—A. McFARLANE, Sec.

SEDGELEY PARK COLLEGIATE SCHOOL.

"I was much pleased with the four Lectures you delivered last week. All the Professors were equally gratified, and both Lectures and Illustrations afforded instruction as well as entertainment. I have great pleasure in giving you this testimonial of our approbation."—G. ROLFE, President, Feb. 27th, 1857.