

# THE CHEMICAL NEWS

WITH WHICH IS INCORPORATED THE

CHEMICAL GAZETTE.

Edited by]

[William Crookes

No. 30.]

Registered for

Saturday, June 30, 1860.

Transmission abroad.

{ PRICE 3d.  
{ POST FREE, 4d.

## CONTENTS.

	PAGE
<b>Scientific and Analytical Chemistry</b>	
<i>On Organo-Metallic Bodies, by Dr. E. FRANKLAND, F.R.S.</i>	25
<b>Technical Chemistry</b>	
<i>On Oxalate of Cerium, by F. F. MAYER</i>	27
<b>Pharmacy, Toxicology, &amp;c.</b>	
<i>Chalybeate Cod Liver Oil</i>	28
<i>Improved Taste to Cod Liver and Castor Oils</i>	28
<b>Proceedings of Societies</b>	
<i>South Kensington Museum: On Water, by Dr. E. LANKESTER, F.R.S.</i>	29
<i>Society of Arts: On Building Woods, the Causes of their Decay and the Means of Preventing it, by Mr. G. P. BURNELL</i>	31
<i>House of Lords: The Adulteration of Food or Drink Bill</i>	33
<b>Correspondence</b>	
<i>Mathematics of Chemistry</i>	33
<i>Manufacture of Sulphuric Acid</i>	34
<i>Chemical Notices from Foreign Sources</i>	35
<b>Laboratory Memoranda</b>	
<i>Detection of Oxygen in Hydrocarbons, &amp;c.</i>	36
<b>Miscellaneous</b>	
<i>Rotten Stone</i>	36
<b>Answers to Correspondents</b>	36

**SCHOOL FOR MECHANICAL, CHEMICAL, and SCIENTIFIC EDUCATION, at the COLLEGE, CHESTER.**—In addition to English and Mathematics, all the Pupils are taught Drawing, suitable for the architect or engineer, and in the Laboratory the Principles as well as the Practice of Chemistry. The use of tools, the construction of machinery, and the principles of mechanism, may be studied in the various workshops of the school. French and German are taught to all who desire it, without any extra charge. Chemical Analyses undertaken; Steam Engines and Machinery examined and reported upon, and mechanism designed for special purposes.

For further particulars, apply to the Rev. ARTHUR RIGG, Chester.

## NOTICE.

Vol. I. of the CHEMICAL NEWS, containing a copious Index, is now ready, price 8s. 6d. handsomely bound in cloth, gold lettered. The cases for binding may be obtained at our office, price 1s. 6d. Subscribers may have their copies bound for 2s. if sent to our office, or if accompanied by a cloth case for 6d.

Sixth Edition, now published. Price 1s. or by Post 13 Stamps.

## THE "PHOTOGRAPHIC TEACHER,"

OR

"WHAT TO DO IN PHOTOGRAPHY, AND HOW TO DO IT."

By G. WHARTON SIMPSON, Esq.

"This is essentially a practical book, the author explaining everything that can need explaining. The result is a work instructive to the novice, and a comprehensive text-book for the practical photographer."—*Photographic News*, Sept. 17.

"The chapter upon Colouring alone is worth more than the cost of the book, which is one that we can honestly recommend."—*Photo. Journal*, Oct. 15.

"We recommend our readers to get the *Photographic Teacher*. It is a capital Shilling manual of the various processes."—*Photo. Notes*, Oct. 15.

"Upon all points connected with Photography, this book is truly valuable."—*Art Journal*.

"No one interested in this beautiful art should be without the *Photographic Teacher*."—*Illustrated News*, Feb. 5.

"The great value of this *Teacher* is that it embodies all which is necessary to be known upon the practice of the art, and expresses its teachings in the most simple language."—*Art Journal*.

PUBLISHED BY SQUIRE & Co.

Photographic Warehouse, 52 King William St. London Bridge.

## GEORGE KNIGHT AND SONS,

MECHANICIANS AND MANUFACTURERS OF

CHEMICAL AND PHILOSOPHICAL APPARATUS

Suited to the Requirements of Manufacturers, Experimentalists, Naturalists, and Teachers of Natural Philosophy, Metallurgists, and Wholesale and Retail Dealers in the various Metals, Ores, and Minerals employed in the Arts. Pure Tests and Re-agents. Publishers of many Useful and Practical Scientific Works.

GEORGE KNIGHT & SONS, 2 Foster Lane, Cheapside, London.

## PAGE AND TIBBS,

PHOSPHORUS, CHLORATE, POTASH, AND GENERAL CHEMICAL WAREHOUSE.

47 BLACKFRIARS ROAD, S.

THE TRADE SUPPLIED WITH CHEMICALS AT LOW CASH PRICES.

Pure Chemicals for Analyses.—Price List on Application.

Shipping Orders Promptly Executed.

Now ready, Second Edition, price 3s. 6d. cloth.

LECTURES ON THE PHYSICAL FORCES, delivered to a Juvenile Auditory at the Royal Institution by PROFESSOR FARADAY; reported verbatim and edited by WILLIAM CROOKES, F.C.S. with numerous illustrations.

LONDON AND GLASGOW: RICHARD GRIFFIN & Co.

Post free from the CHEMICAL NEWS Office for 3s. 6d.

PURE SPIRITS FOR THE FACULTY.

S. V. R. 56 o.p., 17s. net Cash.

This quotation admits of neither credit nor discount, and 1s. per gallon must be added for packages, to be allowed on their return.

HENRY BRETT & CO. Old Farnival's Distillery, Holborn.