

various European ports; about two hundred thousand cabin passengers were carried to and fro, in addition to nearly three hundred and seventy-two thousand immigrants who were landed at Castle Garden. This enormous traffic was conducted without accident, and no more comforting assurance can be given than this of safety on the Atlantic."

— In "The Compounding of English Words," a neat little volume, of which F. Horace Teall is author and John Ireland publisher, a praiseworthy attempt is made to show when and why the joining or the separation of certain words is preferable. Concise rules are given in relation to the use of the hyphen and the "solidifying" of separate words into one without the hyphen; also lists of words showing the author's preferences in these matters. "Preferences" they must necessarily be called, for, notwithstanding the many excellent reasons given for some forms of words, and other reasons not so good for other forms, the thousands of writers, printers, teachers, proof-readers, and others, to whom the book is dedicated, and to whose interests it appeals, will still continue to use their individual preferences, — and they mould that department of language, or rather, defy all attempts to have it moulded into any semblance of uniformity. While the author claims this to be the "first systematic attempt to disentangle the perplexities of English compounding," he gives due credit to Fowler, Wilson, and others, who have made some slight efforts in the same direction. The book will be of value to all

whose work lies in its direction, whether they accept its conclusions or not; for it gives, in little space and convenient form, all, or nearly all, the words about which there are differences of opinion, with the reasons for the author's preferences of particular forms clearly stated.

— We have received from Ginn & Co. "A Higher Algebra," by G. A. Wentworth, professor of mathematics in Phillips Exeter Academy. The work gives in one volume a preparatory course for colleges and scientific schools, besides providing a sufficiently full treatment of the subjects usually read by students in such institutions.

— The fifth paper in the *Popular Science Monthly's* illustrated series on the development of American industries since Columbus will describe "The Manufacture of Wool." It will appear in the June number, and the writer is S. N. Dexter North, secretary of the National Association of Wool Manufacturers, and special agent of the Eleventh Census. In the same number appears the concluding part of Dr. Andrew D. White's paper on "Miracles and Medicine," and "Our Grandfathers died too Young," under which odd title Mrs. H. M. Plunkett describes the progress in sanitation which has doubled the average length of life in civilized countries within a few hundred years. Lieutenant-Colonel A. B. Ellis contributes an essay on "Survivals from Marriage by Capture." "The Pearl of Practice" is the title of a book of medical prescriptions, printed in London over two hundred years ago, some

Publications received at Editor's Office,
May 11-19.

- GETTING Married and Keeping Married. (Human-Nature Library.) New York, Fowler & Wells. 22 p. 12¢. 10 cents.
- GRAHAM, DOUGLAS. A Treatise on Marriage, Theoretical and Practical. New York, Vail (2d ed.). 342 p. 8¢.
- LETOURNEAU, C. The Evolution of Marriage and of the Family. New York, Scribner. 373 p. 8¢. \$1.25.
- MICHIGAN, Seventeenth Annual Report of the Secretary of the State Board of Health of the State of, for the Fiscal Year Ending June 30, 1889. Lansing, Thorp pr. 324 p. 8¢.
- POSTAL Savings Banks. An Argument in their Favor by the Postmaster-General. Washington, Government. 72 p. 8¢.
- THORNTON, W. Origin, Purpose, and Destiny of Man; or, Philosophy of the Three Ethers. Boston, The Author. 100 p. 12¢.
- WENTWORTH, G. A. A Higher Algebra. Boston, Ginn. 521 p. 12¢. \$1.55.

A SYSTEM OF EASY LETTERING.

By J. H. CROMWELL, Ph.B.

Twenty-six different forms of Alphabets. The space to be lettered is divided into squares, and with these as a guide the different letters are drawn and inked. Price, 50 cents, postpaid.

E. & F. N. SPON, 12 Portland Street, New York.

HANDBOOK OF METEOROLOGICAL TABLES.

By ASST. PROF. H. A. HAZEN.
127 pp. 8¢.

Professor Waldo says: "I heartily recommend them to all workers in meteorology, and do not see how any of our American meteorologists can afford to be without a copy."

Professor Symons of London says: "They are unquestionably valuable helps, which must be kept handy, and replaced when worn out."

Price, postpaid, \$1.

N. D. C. HODGES, 47 Lafayette Pl., New York.

OF WHAT USE IS THAT PLANT?

You can find the answer in
SMITH'S "DICTIONARY OF
ECONOMIC PLANTS."

Sent postpaid on receipt of \$2.80. Publisher's price, \$3.50.

SCIENCE BOOK AGENCY,
47 Lafayette Place, New York

"The Week, one of the ablest papers on the continent."—*Descriptive America.*

THE WEEK,

A Canadian Journal of Politics, Literature, Science and Art.

PUBLISHED EVERY FRIDAY.

\$3.00 per Year. \$1.00 for Four Months.

THE WEEK has entered on its EIGHTH year of publication, greatly improved in every respect, rendering it more worthy the cordial support of every one interested in the maintenance of a first-class literary journal.

The independence in politics and criticism which has characterized THE WEEK ever since its first issue will be rigidly maintained; and unceasing efforts will be made to improve its literary character and increase its attractiveness as a journal for the cultured home. Many new and able writers are now, or have promised to become, contributors to its columns, and the constant aim of the Publisher will be to make THE WEEK fully equal to the best literary journals in Britain and the United States.

As heretofore, PROF. GOLDWIN SMITH will, from time to time, contribute articles. London, Paris, Washington and Montreal letters from accomplished correspondents will appear at regular intervals. Special Ottawa Letters will appear during the sessions of Parliament.

THE WEEK being the same size as "Harper's Weekly," is the largest paper of its class on the continent.

SEND FOR FREE SAMPLE COPY.

C. BLACKETT ROBINSON, Publisher,
5 Jordan St., Toronto, Canada.

THE AMERICAN GEOLOGIST FOR 1891 AND BIEN'S NEW ATLAS OF THE METROPOLITAN DISTRICT,

will be given to **New Subscribers** to the GEOLOGIST for \$25.00 (which is the regular price of the Atlas alone), if ordered through the GEOLOGIST.

For other premiums see the GEOLOGIST for Nov., Dec., and Jan. Address

THE GEOLOGICAL PUBLISHING COMPANY,
Minneapolis, Minn.

THE BOTANICAL GAZETTE.

A monthly illustrated journal of botany in all its departments.

25 cents a number, \$2.50 a year.

Address PUBLISHERS BOTANICAL GAZETTE,
Crawfordsville, Ind.

Publications of the University of Pennsylvania.

SERIES IN

Philology, Literature and Archæology.

Vol. I. now ready.

- Poetic and Verse Criticism of the Reign of Elizabeth. By Felix E. Schelling, A.M., Assistant Professor of English Literature. \$1.00.
- A Fragment of the Babylonian "Dibbarra" Epic. By Morris Jastrow, Jr., Ph.D., Professor of Arabic. 60 cents.
- a. *Ἰπὸς* with the Accusative. b. Note on a Pas, sage in the Antigone. By William A. Lamberton, A.M., Professor of the Greek Language and Literature. 50 cents.
- The Gambling Games of the Chinese in America. Fán tán and Pák kòp piú. By Stewart Culin, Secretary of the Museum of Archæology and Palæontology. 40 cents.

In preparation.

- The Terrace at Persepolis. By Morton W. Easton, Ph.D., Professor of Comparative Philology.
- An Aztec Manuscript. By Daniel G. Brinton, M.D., Professor of American Archæology and Linguistics.
- A Monograph on the Tempest. By Horace Howard Furness, Ph.D., LL.D.
- Recent Archæological Explorations in New Jersey. By Charles C. Abbott, M.D., Curator of the American Collections.
- Archæological Notes in Northern Morocco. By Talcott Williams, A.M., Secretary of the Museum of Egyptian Antiquities.
- a. On the Aristotelian Dative. b. On a Passage in Aristotle's Rhetoric. By William A. Lamberton, A.M., Professor of the Greek Language and Literature.
- A Hebrew Bowl Inscription. By Morris Jastrow, Jr., Ph.D., Professor of Arabic.
- The Life and Writings of George Gascoigne. By Felix E. Schelling, A.M., Assistant Professor of English Literature.
- The Papers of this Series, prepared by Professors and others connected with the University of Pennsylvania, will take the form of Monographs on the subjects of Philology, Literature, and Archæology, whereof about 200 or 250 pages will form a volume. The price to subscribers to the Series will be \$1.50 per volume; to others than subscribers, \$2.00 per volume. Each Monograph, however, is complete in itself, and will be sold separately. It is the intention of the University to issue these Monographs from time to time as they shall be prepared. Each author assumes the responsibility of his own contribution.

N. D. C. HODGES,

47 Lafayette Place, New York, N. Y.

BOOKS: How to get them. If there is any book or pamphlet that you want, write to the Science Book Agency, 47 Lafayette Place, New York.

extracts from which are embodied in an article by Miss Elizabeth Robinson to appear in the same issue. After reading the list of ingredients in some of these unsavory messes no one need wonder about the origin of the saying, "The remedy is worse than the disease."

—Arrangements for instruction in botany at the Marine Biological Laboratory have now been completed, and Mr. Setchell of Harvard University will again take charge of the work in this department. Applications for places in either department should be addressed to Miss A. D. Phillips, secretary, 23 Marlborough Street, Boston.

—Among the fifteen candidates recently selected by the council of the Royal Society (London) to be recommended for election into that Society is George Mercer Dawson, D.Sc., F.G.S., A.R.S.M., F.R.S.C., Assistant Director of the Geological Survey of Canada. His qualifications for membership, as summarized in *Nature* of

May 7, are as follows: Much important and valuable work, more especially in geology and ethnology, as in the following summary statement. During his thirteen years of service on the Geological Survey (Canada) has been chiefly engaged in working out the geology of the North-West Territory and British Columbia; placed in charge of the Yukon Expedition, 1887; author of numerous papers, chiefly geological, but including geographical, ethnological, and other observations, published in the *Quarterly Journal of the Geological Society*, "Transactions Royal Society, Canada," *Canadian Naturalist*, etc. These deal more especially with the superficial geology of the regions explored, but some describe *Foraminifera* and other microscopic organisms. Author of fifteen reports published by the Geological Survey of Canada, and joint author (with Dr. Selwyn) of a "Descriptive Sketch of the Physical Geography and Geology of Canada," and (with Dr. W. F. Tolmie) of "Comparative Vocabularies of the Indian Tribes of British Columbia."

Dyspepsia

Horsford's Acid Phosphate.

In dyspepsia the stomach fails to assimilate the food. The Acid Phosphate assists the weakened stomach, making the process of digestion natural and easy.

Dr. R. S. McCOMB, Philadelphia, says: "Used it in nervous dyspepsia, with success."

Dr. W. S. LEONARD, Hinsdale, N. H., says:

"The best remedy for dyspepsia that has ever come under my notice."

Dr. T. H. ANDREWS, Jefferson Medical College, Philadelphia, says:

"A wonderful remedy which gave me most gratifying results in the worst forms of dyspepsia."

Descriptive pamphlet free.

Rumford Chemical Works, Providence, R. I.

Beware of Substitutes and Imitations.

CAUTION.—Be sure the word "Horsford's" is printed on the label. All others are spurious. Never sold in bulk.

POPULAR MANUAL OF VISIBLE SPEECH AND VOCAL PHYSIOLOGY.

For use in Colleges and Normal Schools. Price 50 cents. Sent free by post by

N. D. C. HODGES, 47 Lafayette Pl., N. Y.

PRIZE ESSAYS OF THE AMERICAN PUBLIC HEALTH ASSOCIATION.

Practical Sanitary and Economic Cooking Adapted to Persons of Moderate and Small Means. By MRS. MARY HINMAN ABEL. 12mo, 182 pp. Cloth, 40 cents.

No. 1. Healthy Homes and Foods for the Working-Class. By Professor C. Vaughan, M.D. Ann Arbor, Mich. 8vo, 62 pp. Paper, 10 cents.

No. 2. The Sanitary Conditions and Necessities of School-Houses and School-Life. By D. F. Lincoln, M.D., Boston, Mass. 8vo, 38 pp. 5 cents.

No. 3. Disinfection and Individual Prophylaxis against Infectious Diseases. By George M. Sternberg, M.D., Major and Surgeon U.S.A. 8vo, 40 pp. Paper, 5 cents.

No. 4. The Preventable Causes of Disease, Injury, and Death in American Manufactories and Workshops, and the Best Means and Appliances for Preventing and Avoiding Them. By George H. Ireland, Springfield, Mass. 8vo, 20 pp. Paper, 5 cents.

The four essays (Nos. 1, 2, 3, 4) in one volume of nearly two hundred large octavo pages, thoroughly indexed. Cloth, 50 cents.

N. D. C. HODGES, 47 Lafayette Place, New York.

PENSIONS

THE DISABILITY BILL IS A LAW.

Soldiers Disabled Since the War are Entitled. Dependent widows and parents now dependent whose sons died from effects of army service are included. If you wish your claim speedily and successfully prosecuted, address

JAMES TANNER, Late Commissioner of Pensions, Washington, D.C.

Old and Rare Books.

BACK NUMBERS and complete sets of leading Magazines. Rates low. AM. MAG. EXCHANGE. Schoharie N.Y.

Speech Reading and Articulation Teaching.

By A. MELVILLE BELL.

Price, 25 Cents.

Practical Instructions in the Art of Reading Speech from the Mouth; and in the Art of Teaching Articulation to the Deaf.

[This Work—written at the suggestion of Miss Sarah Fuller, Principal of the Horace Mann School for the Deaf, Boston, Mass.—is, so far as known, the first Treatise published on "Speech Reading."]

From *Principals of Institutions for the Deaf*.

"Admirable in its conciseness, clearness and freedom from technicality."

"The simplicity and perfection of this little book."

"Full of exact and helpful observations."

"A very interesting and valuable work."

"The rules are clearly given and will be of great utility."

"Every articulation teacher should study it."

"A model of clearness and simplicity, without having any of the puzzling symbols that trouble the common mind. . . . The exercises given in speech-reading from the lips are especially interesting, and of great importance for the student of phonetics."

—*Modern Language Notes*.

** The above work may be obtained, by order, through any bookseller, or post-free on receipt of price, from

N. D. C. HODGES,
47 Lafayette Place, New York.

AMERICAN HERO-MYTHS.

A Study in the Native Religions of the Western Continent.

By D. G. BRINTON, M.D. 8°. \$1.75.

THE CRADLE OF THE SEMITES.

By D. G. BRINTON, M.D., and MORRIS JASTROW, JR. Ph.D. 8°. 30 cents.

N. D. C. HODGES, 47 Lafayette Pl., New York.



DO YOU INTEND TO BUILD ?

The "Atlas of Sensible Low Cost Houses," 2 vols. (sent postpaid on receipt of \$2), will aid you, no matter what style of house you may intend to build; as will "Colonial Houses for Modern Homes" (sent postpaid on receipt of \$2).

N. D. C. HODGES,
47 Lafayette Place, New York.

A NEW MONTHLY THE INTERNATIONAL JOURNAL OF MICROSCOPY AND NATURAL SCIENCE.

THE JOURNAL OF THE
POSTAL MICROSCOPICAL AND WESLEY
NATURALISTS' SOCIETIES.

Edited by ALFRED ALLEN and Rev.
WILLIAM SPIERS.

CONTENTS OF APRIL NUMBER:

Notes on the Anatomy of the Cicindela-Sex-guttata.
Infusoria, Protozoa, etc.—Practical Methods of Preparation.
Birds' Nests and Plants on Telegraph Lines.
Aspect of the Heavens—April, 1891.
A Protest against Indiscriminate Collecting.
Color Photography.
Mason's Improved Oxy-hydrogen Lantern and Table Microscope.
Science Jottings.
Cotton in the Holy Land.
Cuba breaking in Two.
Grafting Human Skin.
Limit of Magnification for Photo-Micrography.
Death of Dr. Brady, F.R.S.
Condenser for the Microscope.
Dormant Buds in Woody Dicotyledons.
Examination of Infusoria.
Examination of Drinking Water.
The Annihilation of Smoke.
Boiler-Cleaning.
Cure for Lock-Jaw.
Collectors' Notes for April.
Correspondence.
Parasite in Vaucheria.
Local Societies.
Reviews.

\$1.75 Per Year.

To *Science* subscribers, \$1.00 for one year.
" " " 50 cents for six mos.

Sample Copies 10 cents.

PSYCHE.

A Journal of Entomology, published monthly by the Cambridge Entomological Club. \$2.00 per year, \$5.00 per volume of three years. Volume VI. began in January, 1891. Back volumes for sale at \$5.00 each. Volume I. sold only in complete sets.

READY SOON.

THE LABRADOR COAST.

A Journal of two Summer Cruises to that region; with notes on its early discovery, on the Eskimo, on its physical geography, geology and natural history, together with a bibliography of charts, works and articles relating to the civil and natural history of the Labrador Peninsula.

By ALPHEUS SPRING PACKARD, M.D., Ph.D.
8°, about 400 pp., \$3.50.

FOSSIL RESINS.

By CLARENCE LOWN and HENRY BOOTH.

This book is the result of an attempt to collect the scattered notices of fossil resins, exclusive of those on amber. The work is of interest also on account of descriptions given of the insects found embedded in these long-preserved exudations from early vegetation.

NEW BOOKS.

JUST PUBLISHED.

THE AMERICAN RACE:

By DANIEL G. BRINTON, M.D.

"The book is one of unusual interest and value."—*Inter Ocean*.
"Dr. Daniel G. Brinton writes as the acknowledged authority of the subject."—*Philadelphia Press*.
"The work will be of genuine value to all who wish to know the substance of what has been found out about the indigenous Americans."—*Nature*.
"A masterly discussion, and an example of the successful education of the powers of observation."—*Philadelphia Ledger*.

Price, postpaid, \$2.

BY THE SAME AUTHOR. RACES AND PEOPLES.

"The book is good, thoroughly good, and will long remain the best accessible elementary ethnography in our language."—*The Christian Union*.
"We strongly recommend Dr. Brinton's 'Races and Peoples' to both beginners and scholars. We are not aware of any other recent work on the science of which it treats in the English language."—*Asiatic Quarterly*.
"His book is an excellent one, and we can heartily recommend it as an introductory manual of ethnology."—*The Monist*.
"A useful and really interesting work, which deserves to be widely read and studied both in Europe and America."—*Brighton (Eng.) Herald*.
"This volume is most stimulating. It is written with great clearness, so that anybody can understand, and while in some ways, perhaps, superficial, grasps very well the complete field of humanity."—*The New York Times*.
"Dr. Brinton invests his scientific illustrations and measurements with an indescribable charm of narration, so that 'Races and Peoples,' avowedly a record of discovered facts, is in reality a strong stimulant to the imagination."—*Philadelphia Public Ledger*.
"The work is indispensable to the student who requires an intelligent guide to a course of ethnographic reading."—*Philadelphia Times*.

Price, postpaid, \$1.75.

THE MODERN MALADY; or, Sufferers from 'Nerves.'

An introduction to public consideration, from a non-medical point of view, of a condition of ill-health which is increasingly prevalent in all ranks of society. In the first part of this work the author dwells on the errors in our mode of treating Neurasthenia, consequent on the wide ignorance of the subject which still prevails; in the second part, attention is drawn to the principal causes of the malady. The allegory forming the Introduction to Part I. gives a brief history of nervous exhaustion and the modes of treatment which have at various times been thought suitable to this most painful and trying disease.

By CYRIL BENNETT.

12°, 184 pp., \$1.50.

THE WINNIPEG COUNTRY;

OR,

ROUGHING IT WITH AN ECLIPSE PARTY.

BY

A. ROCHESTER FELLOW.

(S. H. SCUDDER.)

With thirty-two illustrations and a Map.
12°. \$1.50.

"The story is a piquant, good-humored, entertaining narrative of a canoe voyage. A neater, prettier book is seldom seen."—*Literary World*.
"This is a sprightly narrative of personal incident. The book will be a pleasant reminder to many of rough experiences on a frontier which is rapidly receding."—*Boston Transcript*.
"The picture of our desolate North-western territory twenty-five years ago, in contrast with its civilized aspect to-day, and the pleasant features of the writer's style, constitute the claims of his little book to present attention."—*The Dial*.

Fact and Theory Papers

I. THE SUPPRESSION OF CONSUMPTION. By GODFREY W. HAMBLETON, M.D. 12°. 40c.

"The inestimable importance of the subject, the eminence of the author, and the novelty of his work, all combine to render the little treatise worthy of special consideration. . . . We heartily commend Dr. Hambleton's booklet, and wish there were more such works."—*Editorial, Boston Daily Advertiser*.
"The monograph is interesting in style, scholarly, and well worthy of careful consideration. It is devoid of technical expressions, and can be easily read and digested."—*Pharmaceutical Era*.

II. THE SOCIETY AND THE "FAD." By APPLETON MORGAN, Esq. 12°. 20 cents.

"Mr. Morgan founds a sensible and interesting address upon a text furnished by a sentence from a young ladies' magazine; namely, 'Browning and Ibsen are the only really dramatic authors of their century.'"—*New York Sun*.

III. PROTOPLASM AND LIFE. By C. F. COX. 12°. 75 cents.

"To be commended to those who are not specialists."—*Christian Union*.
"Physicians will enjoy their reading, and find in them much food for thought."—*St. Louis Medical and Surgical Journal*.
"Mr. Cox reviews the history of his subject with knowledge and skill."—*Open Court*.
"It is of extreme interest."—*Medical Age*.
"Worthy of a careful perusal."—*Indiana Medical Journal*.
"An interesting and popular account of the tendencies of modern biological thought."—*Popular Science News*.
"All interested in biological questions will find the book fascinating."—*Pharmaceutical Era*.
"The author displays a very comprehensive grasp of his subject."—*Public Opinion*.
"Deserves the attention of students of natural science."—*Critic*.

IV. THE CHEROKEES IN PRE-COLUMBIAN TIMES. By CYRUS THOMAS. 12°. \$1.

Dr. Thomas has already presented to the public some reasons for believing the Cherokees were mound-builders, but additional evidence bearing on the subject has been obtained. A more careful study of the Delaware tradition respecting the Tallegwi satisfies him that we have in the Bark Record (Walam Olum) itself proof that they were Cherokees. He thinks the mounds enable us to trace back their line of migration even beyond their residence in Ohio to the western bank of the Mississippi. The object is therefore twofold: 1. An illustration of the reverse method of dealing with prehistoric subjects; 2. Incidental proof that some of the Indians were mound-builders; 3. A study of a single tribe in the light of the mound testimony. This work will be an important contribution to the literature of the Columbian discovery which will doubtless appear during the coming two years.

"A valuable contribution to the question, 'Who were the mound-builders?'"—*New York Times*.
"Professor Cyrus Thomas undertakes to trace back the evidences of a single Indian tribe into the prehistoric or mound-building age."—*N. Y. Sun*.
"An interesting paper."—*Christian Union*.

V. THE TORNADO. By H. A. HAZEN. 12°. \$1.

"The little book is extremely interesting."—*Boston Transcript*.
"A book which will find many readers. The chapter on 'Tornado Insurance' is of interest to all property-holders in the tornado States."—*Boston Herald*.
"The Tornado is a popular treatise on an important province of meteorology, in which science, the author, Professor Hazen of the United States Signal Service, may be regarded as an expert."—*Philadelphia Ledger*.

VI. TIME-RELATIONS OF MENTAL PHENOMENA. By JOSEPH JASTROW. 12°. 50c.

"All students of psychology will find the book full of interesting facts. Professor Jastrow's good qualities as a thinker and as a writer are too well and too widely known to require comment."—*Public Opinion*.

"A useful work for psychologists—as well as the general reader—by setting forth in brief and easily intelligible form the present state of knowledge in regard to the time required for the performance of mental acts."—*The Critic*.

VII. HOUSEHOLD HYGIENE. By MARY TAYLOR BISSELL. 12°. 75 cents.

"A sensible brochure."—*Brooklyn Eagle*.
"Practical and sensible."—*Public Opinion*.
"The advice and excellent information which it contains are tersely and intelligently expressed."—*Boston Medical and Surgical Journal*.
"Practical and simply written."—*Springfield Republican*.
"The best monograph on home hygiene."—*St. Louis Globe-Democrat*.

In Preparation.

VIII. THE FIRST YEAR OF CHILDHOOD. By J. MARK BALDWIN.

N. D. C. HODGES, 47 Lafayette Place, New York.