

frontispiece; and Dr. Prosper Bender discusses "The French Canadian Peasantry." The "Prospectus of the First American Edition of Shakespeare," a curious antique treasure, appears in minor topics, and "Sixty Waymarks in the World's Progress" furnishes a list worthy of careful preservation.

— Messrs. Ginn & Co. announce to be published in August or September Shelley's "Defense of Poetry," edited by Albert S. Cook, professor in Yale University. Shelley's "Defense" may be regarded as a companion-piece to that of Sidney. Both are the productions of poets who are also distinguished for their prose; of poets essentially lyrical, whose highest praise is given to the epic and the drama; and in both a substantially identical philosophy is set forth with fervid eloquence. In their diction, however, the one is of the sixteenth century, and the other of the nineteenth. For this reason a comparison of the two is of interest to a student of historical English style. But, apart from this, the intrinsic merits of Shelley's essay must ever recommend it to the lover of poetry and of beautiful English. The truth which he perceives and expounds is one which peculiarly needs enforcement at the present day, and it is nowhere presented in a more concise or attractive form. This edition is provided with all needful helps, and is the only one now current of the "Defense" printed by itself, apart from other prose works of Shelley.

— Messrs. Macmillan will issue early next month a reprint from the collected works of Edward Fitzgerald (1889) of his famous version of the Rubaiyat of Omar Khayyam, which is practically unobtainable, except in those three volumes. The author, as is well known, never put his own name on the titlepage of any of the four editions which appeared during his lifetime, and the show of anonymity is still preserved. In accordance with their admirable custom, which other publishers would do well to follow, Messrs. Macmillan have given on the verso of the titlepage a brief bibliography. The same firm will also publish immediately the first

volume of Professor Alfred Marshall's long-expected treatise entitled "Principles of Economics." It is an attempt to present a modern version of old doctrines with the aid of the new work, and with reference to the new problems of the age.

— *Babyhood* for August cautions parents against allowing children to hear too much about "mad" dogs, since hydrophobia is so rare a disease that most physicians never, in fact, see a case of it; while lyssophobia (i.e., dread of hydrophobia), a purely nervous affection, may and sometimes does prove fatal. This number of the magazine contains also a few hints as to water sports for children, and an illustrated description of the most approved methods of resuscitation from drowning. There is an article upon "Hives," and one upon "Signs of Disease in Early Life," each by an eminent physician. Various questions of diet and clothing, pertinent to the season, are discussed, and the interesting series "Kindergarten on the Farm" is continued.

— The August number of *The Forum* will contain a remarkable essay, by Prince P. Krapotkin, on "The Possibilities of Agriculture." He has made a thorough investigation of the fabulous results of the scientific cultivation of land in the most densely populated portions of Europe, and he shows the ease with which the number of acres now cultivated in the civilized parts of the world can be made to yield sustenance for many times the number of people now alive. Scientific and intensive agriculture in the United States, for instance, can be made to sustain in plenty, and with much greater cheapness than now, a population at least ten times as dense. The writer shows conclusively why it is that such slow progress is made in these revolutionary improvements in agriculture, but he predicts with confidence that we are on the eve of the reign of plenty. He proposes that a hundred acres be cultivated in this way as a part of the exposition at Chicago, in order to demonstrate the possibilities of multiplying many times the products of the American farmer.

CATARRH.

Catarrhal Deafness—Hay Fever.

A NEW HOME TREATMENT.

Sufferers are not generally aware that these diseases are contagious, or that they are due to the presence of living parasites in the lining membrane of the nose and eustachian tubes. Microscopic research, however, has proved this to be a fact, and the result of this discovery is that a simple remedy has been formulated whereby catarrh, catarrhal deafness and hay fever are permanently cured in from one to three simple applications made at home by the patient once in two weeks.

N.B.—This treatment is not a snuff or an ointment; both have been discarded by reputable physicians as injurious. A pamphlet explaining this new treatment is sent free on receipt of stamp to pay postage, by A. H. Dixon & Son, 337 and 339 West King Street, Toronto, Canada.—*Christian Advocate.*

Sufferers from Catarrhal troubles should carefully read the above.

**JOHNS HOPKINS UNIVERSITY,
BALTIMORE.**

Announcements for the next academic year are now ready and will be sent on application.

MICHIGAN, Houghton.

Michigan Mining School.

A State School of Surveying, Mining, Electrical and Mechanical Engineering, Physics, Chemistry, Assaying, Ore Dressing, Mineralogy, Petrography, Geology, Drafting, Machine Design, etc. Tuition free. For catalogues and information address

M. E. WADSWORTH, A.M., Ph.D., Director.

A TEMPORARY BINDER

for *Science* is now ready, and will be mailed postpaid on receipt of 75 cents.



This binder is strong, durable and elegant, has gilt side-title, and allows the opening of the pages perfectly flat. Any number can be taken out or replaced without disturbing the others, and the papers are not mutilated for subsequent permanent binding. Filled in this binder, *Science* is always convenient for reference.

Temporary binders of the same description but without side title, to fit any paper or periodical of ordinary size, will be mailed postpaid on receipt of price as given below. In ordering, be sure to give the name of paper or periodical and style of binder.

8 to 12 inches long, cloth,	\$0.50;	leather,	\$0.60.
12 " 14 " " "	60	"	75.
14 " 17 " " "	75	"	1.00.
17 " 19 " " "	1.00	"	1.25.

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

Correspondence solicited with parties seeking publishers for scientific books. Short monographs on scientific questions of general interest are especially desired.

N. D. C. HODGES,
Publisher of Science,
47 Lafayette Place,
New York.

Have you a friend who, for fashion's sake, submits to physical deformity? Would he or she not be interested in Professor Flower's "Fashion in Deformity?"

Sent postpaid on receipt of 50 cents.

SCIENCE BOOK AGENCY
47 Lafayette Place, New York.

A New Method of Treating Disease.

HOSPITAL REMEDIES.

What are they? There is a new departure in the treatment of disease. It consists in the collection of the specifics used by noted specialists of Europe and America, and bringing them within the reach of all. For instance, the treatment pursued by special physicians who treat indigestion, stomach and liver troubles only, was obtained and prepared. The treatment of other physicians celebrated for curing catarrh was procured, and so on till these incomparable cures now include disease of the lungs, kidneys, female weakness, rheumatism and nervous debility.

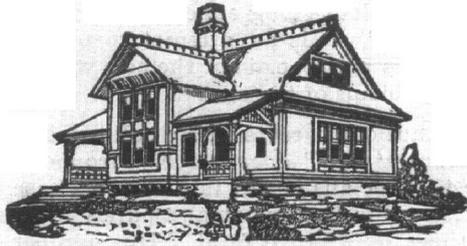
This new method of "one remedy for one disease" must appeal to the common sense of all sufferers, many of whom have experienced the ill effects, and thoroughly realize the absurdity of the claims of Patent Medicines which are guaranteed to cure every ill out of a single bottle, and the use of which, as statistics prove, has ruined more stomachs than alcohol. A circular describing these new remedies is sent free on receipt of stamp to pay postage by Hospital Remedy Company, Toronto, Canada, sole proprietors.

GEMS AND PRECIOUS STONES OF NORTH AMERICA:

A popular description of their occurrence, value, history, archæology, and of the collections in which they exist; also a chapter on pearls, and on remarkable foreign gems owned in the United States. By GEORGE FREDERICK KUNZ. Illustrated with eight colored plates and numerous engravings. Price, \$10.
Mr. Kunz, who is well known as an authority upon the subject of gem stones, and who is the expert for Tiffany & Co., possesses peculiar facilities for the preparation of a work of this kind.

Sent postpaid on receipt of price.

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



DO YOU INTEND TO BUILD?

We offer an Atlas of **Sensible Low Cost Houses**, a portfolio 11x14 inches, containing **handsome illustrations, floor plans, and full descriptions** of this popular design, and fifty-four others, ranging in cost from \$800 to \$7,200. This specimen design is for a cottage with seven rooms, and costing \$1,100. It combines beauty and comfort, has two large porches, and is a popular and practical working design, having been built several times for its estimated cost.

No matter what style of a house you may intend to build, it will pay you to have this book.

We will send this Atlas, postpaid, on receipt of price, \$1.—N. D. C. Hodges, 47 Lafayette Place, 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.

CHEMICAL BOOKS FOR SALE.

ANALYST, London (1887-89, July and November of 1888 missing)	1.80
SUGAR CANE, Manchester (1881-83, 1885-86, also numbers of 1884, 1887, and 1888)	2.40
ZEITSCHRIFT Rubenzuckerindustrie Stammer (1885-86, part of 1887)	1.20
ZEITSCHRIFT Rubenzuckerindustrie Schublers (Vols. xiv.-xvii. inclusive), complete	2.40

Any of the above will be sent postpaid on receipt of price.

SCIENCE BOOK AGENCY,

47 Lafayette Place, New York.



RUPTURE

cured in stipulated time.

NO DELAY FROM WORK. NO OPERATION.

Call or send stamp for circular and reference of those cured. We have on hand over 300 styles of trusses, from \$1 up, and suspensories of all kinds. Orders filled by mail or express to any part of the United States.

C. A. M. BURNHAM, M.D.,
138 Clinton Place, New York.

N. D. C. HODGES, 47 Lafayette Pl., New York,
Announces as Just Published

Fact and Theory Papers

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 worth of careful consideration. It is devoid of technical expressions, and can be easily read and digested."—*Pharmaceutical Era*.

"It is full of facts and wisdom."—*Philadelphia Saturday Evening Post*.

"The book contains much of importance to the medical fraternity, as well as the general populace."—*Burlington Hawkeye*.

"We commend the book to physicians and laymen."—*Herold (German), Milwaukee*.

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*.

"In the little book before us the treatment of the subject is dispassionate and logical. The comparison drawn throughout this monograph is between Shakespeare and Browning, the subject-matter being largely based on the Browning and Shakspearian societies and how they came to exist. A pleasant half-hour or more may be spent over the book, and some useful information derived from it."—*Englewood Times*.

"To say nothing of the dissection of Browning, the vivid side-lights thrown upon Shakespeare's life and work make the reading of this volume at once a pleasure and a source of instruction."—*Chicago Evening Journal*.

PROTOPLASM AND LIFE.

By C. F. COX. 12°. 75 cents.

The author of this book was for some years president of the New York Microscopical Society, and in this volume he sets forth his views on the spontaneous generation theory and its relation to the general theory of evolution, and on protoplasm and the cell doctrine.

Ready at an early date.

THE CHEROKEES IN PRE-COLUMBIAN TIMES

By CYRUS THOMAS. 12°. \$1.

Dr. Thomas in this work will reverse the usual method of dealing with prehistoric subjects: that is to say, he will commence with the earliest recorded history of the tribe as a basis, and trace the chain back step by step by the light of the mounds, traditions, and other evidence, as far as possible. He 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 threefold: 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.

THE TORNADO.

By H. A. HAZEN. 12°. \$1.

Professor Hazen is one of the prominent meteorologists connected with the United States Signal Office. In this work he reviews our present information as to tornadoes, severely criticizing some of the opinions held in regard to them up to this time. No one has given a more careful study to these destructive storms than has Professor Hazen, and his book will prove a decided contribution to the world's knowledge. In this book will be found a careful discussion of the important question of Tornado Insurance now attracting so much attention. Hundreds of dollars may be saved by people who are thinking of such insurance by following the principles here made plain.

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.

Wants.

Any person seeking a position for which he is qualified by his scientific attainments, or any person seeking some one to fill a position of this character, be it that of a teacher of science, chemist, draughtsman, or what not, may have the "Wants" inserted under this head FREE OF COST, if he satisfies the publisher of the suitable character of his application. Any person seeking information on any scientific question, the address of any scientific man, or who can in any way use this column for a purpose consonant with the nature of the paper, is cordially invited to do so.

WANTED.—A Mining Engineer of standing and experience. One having had practical experience in Coal Mining and the manufacture of Coke preferred. Address A., care "SCIENCE."

CHEMIST.—A Harvard Graduate and Specialist in Chemistry desires a position with some manufacturing industry, or with a practical chemist. He would make an engagement to take charge of a laboratory and lecture on Chemistry. He has had large experience in the laboratory and school-room, and can give the best of references. Address J., Harvard College, Cambridge, Mass.

WANTED.—A Lady Teacher, at present teaching in England, with 12 years of very successful experience in primary work, desires a similar position in America. An appointment in the State of Ohio, or the City of New York, preferred. Excellent references, etc. Address in July or August, L. DUNCAN, Poste Restante, Stainland, Halifax, England.

WANTED.—The latest and most reliable authorities on the Occurrence, Analysis, and Practical Uses of Native Hydro-Carbons, such as Bitumen, Asphaltum, Mineral Wax, etc. Address Dr. J. E. TALMAGE, Box 1,047, Salt Lake City, Utah.

WANTED.—A position as Teacher of Natural Sciences; will teach German or English branches if desired. Address Box 285, Charlestown, N. H.

A ZOOLOGIST, acquainted with the United States, graduate (Ph.D. Freiburg, B.Sc. of an English university) of many years' standing; late Fellow of an English college; late assistant to a German university, professor of Comp. Anatomy; many years a student at two German universities; pupil of Huxley, Kölliker, Semper, Wiedersheim and Weismann; author of many well-known memoirs on Comp. Anatomy and Embryology; thoroughly conversant with all branches of the subject; fond of teaching, with good testimonials, seeks a Professorship. Address "MORPHOLOGIST," Office of SCIENCE. Other information and a few testimonials can be seen at the Office of SCIENCE.

WANTED.—By a lady-graduate of Cornell University, position as teacher in high school, seminary or college; prepared to teach the following branches, employing, so far as is practicable, the laboratory method: Geology, Botany, Zoology, Physiology; also, if desired, Physics, Chemistry, Logic and Psychology. References to heads of above-named departments in Cornell University. JENNIE T. MARTIN, care Cornell University, Ithaca, N. Y.

Exchanges.

[Free of charge to all, if of satisfactory character. Address N. D. C. Hodges, 47 Lafayette Place, New York.]

I wish to exchange Riley's Missouri Reports, either singly or full set, for Proceedings Entomological Society, Philadelphia, vols. 2 to 6 inclusive. Will also exchange Casey's Revision of the *Stenini* of N. A. and Horn's Revision of the *Tenebrionidae*. F. M. Webster, La Fayette, Ind.

I wish to exchange a fresh and complete set of Weiss and Spier's "Necropolis of Ancon" for other books, either new or second-hand, if the latter are in good condition. What have you to offer? Address Warren Watson, Kansas City, Mo.

1,000 botanical specimens representing 250 genera in exchange for those not in my collection. Send list of duplicates, and receive a similar one to choose from. Address E. E. Bogue, Orwell, Ashta Co., Ohio.

For exchange—14 volumes (1883-1889) American Journal of Science, 10 volumes (1880-1889) American Naturalist, 21 volumes (1879-1890) English Mechanic, all in good condition for binding; also, Morris Typewriter. Wants first-class microscope, camera, chemical or physical apparatus. Address, with full particulars, E. R. Chadbourn, Lewiston, Maine.

Meteorites.—Mr. George F. Kunz, 11 to 15 Union Square, New York, or Hoboken, N. J., will buy or give in exchange for whole or parts of meteorites. Whole ones, undescribed ones, and entire falls especially desired.

Wanted—To furnish roots of *Dodecatheon Meadia*, *Sarracenia purpurea*, and other wild flowers, native of Southern Wisconsin, in quantities. D. E. Willard, Curator of Museum, Albion Academy, Albion, Wis.

I have a number of duplicates of microscopic slides, mostly botanical, which I would like to exchange for others not now in my collection. Send list of what you have to exchange and get my list. S. R. Thompson, New Wilmington, Pa.