

The honors of the world sat ill upon him ; *la magnificence le gênait*, he said ; but he lived at a time when proffered things were usually accepted, not refused. He was loaded with personal favors and official distinctions by Napoleon, who called him *la haute pyramide des sciences mathématiques*, was made a Senator, a Count of the Empire, a Grand Officer of the Legion of Honor, and, just before his death, received the grand cross of the Order of Reunion. He never feared death, which he termed *une dernière fonction, ni pénible ni désagréable*, much less the disapproval of the great. He remained in Paris during the Revolution when *savants* were decidedly at a discount, but was suspected of aspiring to no throne but that of mathematics. When Lavoisier was executed he said : " It took them but a moment to lay low that head, yet a hundred years will not suffice perhaps to produce its like again." Lagrange would never allow his portrait to be painted, maintaining that a man's works and not his personality deserved preservation. The accompanying frontispiece to *The Open Court* is from a steel engraving supposedly based on the sketch obtained by stealth at a meeting of the Institute. His genius was excelled only by the purity and nobleness of his character, in which the world never even sought to find a blot, and by the exalted Pythagorean simplicity of his life. He was twice married, and by his wonderful care of his person lived to the high age of seventy-seven years, not one of which had been misspent. His life was the veriest incarnation of the scientific spirit ; he lived for nothing else. He left his weak body, which retained its intellectual powers to the very last, as an offering upon the altar of science,—happily made when his work had been done. A desiccated liver, a tumored kidney (see the delectable *post mortem* of Monsieur Potel), long since dust, were the sole defects he gave to the grave, but to the world he bequeathed his "ever-living" thoughts now resurgent in a new and monumental edition (Gauthier-Villars, Paris). *Ma vie est là!* he said, pointing to his brain the day before his death.

THOMAS J. McCORMACK.

BOOK REVIEWS AND NOTES.

INTRODUCTION TO GENERAL CHEMISTRY. A Graded Course of One Hundred Lectures. By *Gustavus Dettlef Hinrichs*, M. D., LL.D. With an Atlas of Eighty Plates. Pages, 400. Price, \$4.00. St. Louis, Mo., U. S. Carl Gustav Hinrichs, Publisher.

Since the invention of the kindergarten, education is undergoing a radical reformation which in the end will make teaching more difficult and learning more easy. Instruction, which in former days consisted in mechanical cramming, has of late become an art employing a definite method of presenting the lesson, not to the mind alone, but first to all the senses and then to the mind. Professor Hinrichs's *Introduction to General Chemistry* is a guide for teachers and pupils according to the modern requirements. The book is full of illustrations and diagrams. It opens with pictures of the most famous chemists, Berzelius, Liebig, Bunsen, Faraday, Berthelot, and others. It contains illustrations of coal and gold mining, the process of quarrying salt, plates explaining crystallisation, a table of spectrum analysis (the latter, however, is not colored as it ought to be) ; parabolæ of fusing and boiling points, etc.

The book contains a great deal of information, but it is not a text-book ; it is, as the title indicates, an introduction into the science. It will therefore be welcome to the man of broad culture as well as to the student of chemistry. In the hands of a pupil for the use of home reading it will be a valuable help to the professor's lessons. It is sufficiently elementary to be attractive even to a beginner.

Professor Hinrichs as a scientist has not found the recognition to which his discoveries seem to entitle him. He claims, e. g., to have discovered the Mendeljeff law before Mendeljeff, and proves his priority by communications and statements the dates of which are unequivocal. No doubt he suffered under the disadvantage of living at a distance from the European universities. The recognition, withheld from him by his German colleagues, was, however, freely given him by French chemists, one of whom, M. Friedel, has been honored by the author with the dedication of the present book. Whatever we may think of Hinrichs the scientist, there can be no doubt that Hinrichs the teacher ranks high in both originality of method and in the *Anschaulichkeit* of his lessons. These virtues appear plainly in his *Introduction to General Chemistry*" and render the book a valuable aid to teachers.

There are two points, however, which may be regarded as drawbacks. First, an index is missing, and secondly the book, although its general make-up is good, has been partly printed in the display type which we are accustomed to find in advertisements. It is a fault (if a break of fashion may be called a fault) which is unessential, yet such unessential faults, because they are mere externalities, do sometimes more harm than essential shortcomings, which on account of their being internal are not easily discovered.

We heartily wish the author a genuine success with this book, which appears to contain the quintessence of his life's experiences as a professor of chemistry. P. C.

The flowers of summer are rapidly fading away in the cold December winds, but with the regularity of the seasons our artists offer us a new and indeed a rich harvest of the most delicate blossoms in the form of Christmas cards. Messrs. L. Prang & Co., the leading art publishers of this continent, publish again a choice selection of holiday greetings, all of which show exquisite taste and a rare perfection of technique. The style of art at present quite fashionable, which indulges in a method of outline drawing that is sometimes wrongly regarded as an imitation of the Japanese, appears to advantage in "The Dream Roses Calendar," a series of pictures representing dream-lost maidens surrounded by roses. The extravagance that is habitual in this style of painting has been happily avoided, and thus it appears that the very moderation of the artist has enabled him to transfigure the art *à la mode* and add beauty to fashion. Among other novelties of Messrs. Prang & Co. we notice a large picture by J. L. G. Ferris, "Washington and Sally Fairfax," and the second series of "The Masters of Music."

The Open Court Publishing Company has just received from Japan the new and first Japanese-English edition of Dr. Carus's *Nirvāna: A Story of Buddhist Psychology*. The delicate illustrations, which were made by Mr. Suzuki, one of the most famous artists of Japan, well reproduce the spirit of the tale and afford some fine specimens of Japanese art in its purest form, as unadulterated by foreign extravagances. The book is considerably larger than the *Karma* of Dr. Carus, with which our readers are familiar. The English type is good, the paper a soft, flexible crêpe. (Price, \$1.00.) An exquisite colored *Nirvāna* poster has also been designed for The Open Court Publishing Co. by Mr. Suzuki, and in our judgment far surpasses the examples of this style of art which were recently so much in vogue in European countries. (Price, 25 cents.)

From the 1st of January on, the English agents of The Open Court Publishing Co. will be Messrs. Kegan Paul, Trench, Truebner, & Co., Paternoster House, Charing Cross Road, London.

Catalogue of Publications

OF THE

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Darwinism Illustrated.

Reprint of illustrations from *Darwin and After Darwin*, Part I. Wood engravings explanatory of the Theory of Evolution, selected by and drawn under the direction of Prof. George J. Romanes. Designed for use in class and home instruction. Pages, 94. Paper, \$1.00.

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Edited by Charles Gore, M. A., Canon of Westminster. Third edition. Pages, 184. Cloth, \$1.25 net.

Romanes was one of the foremost English scientists of the last two decades. He was constantly occupied by the religious problem, having first solved it agnostically, but in his latter years showing the tendency to approach it in a more conciliatory attitude. The resurgence in later life of the religious ideas implanted in him in his youth is a significant psychological problem which is especially emphasised in the *Open Court's* treatment of the religious question. One should read in connexion with Romanes's *Thoughts* Dr. Paul Carus's estimate of the book in Vol. V, No. 3, page 385, of *The Monist*.

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FREYTAG, GUSTAV.

The Lost Manuscript.

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Gustav Freytag did not write his novel with the intention of teaching psychology or preaching ethics. But the impartial description of life does teach ethics, and every poet is a psychologist in the sense that he portrays human souls. This is pre-eminently true of Gustav Freytag and his novel "The Lost Manuscript."

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