SCIENCE

AUGUST 14, 1925 No. 1598 VOL. LXII CONTENTS Success in Science: Dr. A. S. HITCHCOCK 141 The Relation of the Restricted to the General Theory of Relativity: PROFESSOR W. F. G. SWANN 145 A Year of Progress for Organized Museums: Jay Backus Woodworth 150 Scientific Events: An International Pharmaceutical Conference; The Proposed Sanctuary for Wild Animals in South Africa; The German Chemical Industry; Federal Funds for Scientific Research in Agriculture; Ramsay Memorial Fellowships 151 Scientific Notes and News 153 University and Educational Notes 156 Discussion and Correspondence: The Nomenclature of the Vitamines: Dr. CASIMIR FUNK. The Politeness of American Botanists: DR. J. H. KEMPTON, PROFESSOR CLIFFORD H. FARR. Evolution and the Bible: PRESIDENT ALBERT F. Woods, E. T. Brewster 157 Scientific Books: Lippmann's History of the Beet: Dr. C. A. Scientific Apparatus and Laboratory Methods: Mounting and Exhibiting Relief Models: ARCH R. ADDINGTON. A Duplex Vacuum Gauge: DR. RALPH C. HARTSOUGH 160 Special Articles: A Rot of the Smyrna Fig in California: PANOS D. The Royal Society of Canada 162 The Western Psychological Association 163 The Metric Association 164 Science News x

SCIENCE: A Weekly Journal devoted to the Advancement of Science, edited by J. McKeen Cattell and published every Friday by

THE SCIENCE PRESS

Lancaster, Pa. Garrison, N. Y. New York City: Grand Central Terminal. Annual Subscription, \$6.00. Single Copies, 15 Cts.

SCIENCE is the official organ of the American Associa-

tion for the Advancement of Science. Information regarding membership in the association may be secured from the office of the permanent secretary, in the Smithsonian Institution Building, Washington, D. C.

Entered as second-class matter July 18, 1923, at the Post Office at Lancaster, Pa., under the Act of March 8, 1879.

SUCCESS IN SCIENCE¹

MANY books have been written on success. How to be a successful salesman, how to be a successful author, how to be a successful this, that and the other. Very appealing are rules by which those who have not may hope to join the ranks of those who have. The higher the so-called civilization of a race or nation the greater the average desire of its individuals to get more than they have, to become more than they are.

In the strict sense success is the accomplishment of the attempted, but in the humanistic sense the thing attempted is taken into consideration. A criminal may be successful in committing a crime, or the miser may be successful in amassing treasure. But the generally accepted meaning of the expression, a successful man, includes something more than mere accomplishment. The accomplishment must be thought worth while by society. In our own civilization success has come to mean rather more than keeping ourselves and our families provided with the usual physical necessities of life, even though this may require a considerable degree of efficiency. The average man desires bodily comforts and makes an effort to obtain them. Having obtained them his efforts are confined in the main to maintaining his position. In a broad way we may say that the average man is satisfied to maintain himself and his family in average conditions for the society in which he moves. Such a man is successful in the sense that he has not failed; but the expression, a successful man, brings to mind accomplishment greater than that of maintaining the status quo. It is clear that a small portion of society is impelled by some inner force to go beyond the average and attempt to accomplish many things that are not required to satisfy physical wants.

We find at once that we are dealing with what are generally known as spiritual things. We are satisfying a spiritual rather than a physical or bodily need. The progress of the race is directly connected with this force. The reward obtained from material success is the joy of possession; the reward from spiritual success is the joy of achievement. The unthinking may assume that the successful man of business, the financial giant, is pushed on solely by his desire to possess material things. Far more probable is it that he is impelled by a desire to do

¹ Abridged from the address of the retiring president of the Washington Alumni Chapter of Phi Kappa Phi, May 12, 1925.





SCIENCE—ADVERTISEMENTS



HENRY H. DONALDSON Published by THE WISTAB INSTITUTE Price, \$5.00 Philadelphia, Pa., U. S. A.

SCIENTIFIC PERIODICALS

Chemical, Medical and allied subjects. Complete files, volumes and copies, bought and sold. Kindly send us a list of your wants and items of which you may wish to dispose.

B. LOGIN & SON

29 East 21st Street

New York, N. Y.

THE SCIENCE PRESS PRINTING COMPANY

PRINTERS OF SCIENTIFIC AND EDUCATIONAL JOURNALS MONOGRAPHS AND BOOKS

> A. E. URBAN, General Manager Correspondence Invited

LANCASTER, PENNSYLVANIA

UNIVERSITY OF MANCHESTER

(Faculty of Technology) Manchester Municipal

COLLEGE OF TECHNOLOGY England

Appointment of

PROFESSOR OF TEXTILE TECHNOLOGY

The City Council and the University of Manchester jointly invite applications for the Pro-fessorship of Textile Technology in the University of Manchester and in the College of Technology.

Commencing salary, £900 a year.

Conditions of appointment and form of ap-plication may be obtained from the Registrar, College of Technology, Manchester. The last day for the receipt of applications is Wednes-day, 30th September, 1925.

Canvassing either directly or indirectly will disqualify a candidate for appointment.

B. MOUAT JONES,

Dean of the Faculty, Principal of the College

Marine Biological Laboratory Woods Hole, Mass.

Biological Material

1. ZOOLOGY. Preserved mate-TEST OF YEAD rial of all types of animals for class work and for the museum.

2. EMBRYOLOGY. Stages of some invertebrates, fishes (including Acanthias, Amia and Lepidos-teus), Amphibia, Reptiles and some mammals.

3. BOTANY. Preserved mate-rial of Algae, Fungi, Liverworts, Mosses, Ferns and Seed Plants. 4. MICROSCOPE SLIDES in

Bacteriology, Botany and Zoology. 5. LIFE HISTORIES, Germination Studies and Natural History Groups.

Catalogues furnished on application to **GEORGE M. GRAY, Curator** MASSACHUSETTS

WOODS HOLE

LABORATORY MECHANICIAN

desires position in university or technical institution. Long experience and best refer-ences. Address Box "R," care of Science, Grand Central Terminal, New York, N. Y.