

SCIENCE

A Weekly Journal devoted to the Advancement of Science, publishing the official notices and proceedings of the American Association for the Advancement of Science, edited by J. McKeen Cattell and published every Friday by

THE SCIENCE PRESS

11 Liberty St., Utica, N. Y. Garrison, N. Y.
New York City: Grand Central Terminal

Annual Subscription, \$6.00. Single Copies, 15 Cts.

Entered as second-class matter January 21, 1922, at the Post Office at Utica, N. Y., under the Act of March 3, 1879.

VOL. LV JUNE 16, 1922 No. 1433

CONTENTS

<i>The Maintenance of Scientific Research:</i> SIR CHARLES SHERRINGTON	629
<i>Henry Marion Howe:</i> PROFESSOR WM. CAMPBELL	631
<i>The American Association for the Advancement of Science:</i>	
<i>The Salt Lake City Meeting:</i> PROFESSOR BURTON E. LIVINGSTON.....	633
<i>Scientific Events:</i>	
<i>The Spencer Fullerton Baird Memorial; International Congress of the History of Medicine; Research Fellowships administered through the Division of Biology and Agriculture of the National Research Council; American Meteorological Society; Chairmen of the Divisions of the National Research Council; The U. S. Commissioner of Fisheries</i>	634
<i>Scientific Notes and News</i>	637
<i>University and Educational Notes</i>	642
<i>Discussion and Correspondence:</i>	
<i>The Origin of Species:</i> DR. DAVID STARR JORDAN. <i>The Kaieteur Falls:</i> ARTHUR C. HARDY. <i>Museum Pests feeding on Glycerine Jelly Slides:</i> W. C. KRAATZ. <i>Nectarina in Texas:</i> FRANK C. PELLETT.....	642
<i>Scientific Books:</i>	
<i>Bowie on Geodetic Operations in the United States:</i> DR. JOHN F. HAYFORD.....	645
<i>Special Articles:</i>	
<i>A Haploid Mutant in the Jimson Weed:</i> DR. A. F. BLAKESLEE, DR. JOHN BELLING, M. E. FARNHAM and A. DOROTHY BERGNER. <i>The Mass of the Electron at Slow Velocity:</i> PROFESSOR L. T. JONES and H. O. HOLTE. <i>The Hydrogen-ion Concentration of Soils as affected by Drying:</i> DR. PAUL S. BURGESS	646
<i>The American Philosophical Society:</i> PROFESSOR ARTHUR W. GOODSPEED.....	649

THE MAINTENANCE OF SCIENTIFIC RESEARCH¹

BROADLY taken, the apparatus of prosecution of research in this country is made up as follows: (1) Scientific and professional societies and some institutions entirely privately supported; (2) universities and colleges, with their scientific departments; (3) institutions, using that term in the widest sense, directly subventioned by the state, such for instance as the Medical Research Council, the Development Commission, and the Department of Scientific and Industrial Research. Of these three categories, the first named, the scientific societies group, works without financial aid from the state, apart from the small though extremely useful two government grants distributed, mainly to individual workers, through the Royal Society. At the present time many of the societies sorely need financial help to carry on their labors, and some are absolutely at a loss to know how to publish the scientific results that are brought to them. The second category, the universities and colleges, depends in part upon government aid. In the aggregate of twenty-one institutions of university rank, following Vice-Chancellor Adami's figures, students' fees and endowment provide about 63.5 per cent. of the total income; for the rest they are dependent on government grant. The third category, as said, draws state-support direct.

This triple system may seem a somewhat haphazard and incoordinate assembly. Yet in reality it is an organization with much solidarity, and its coordination is becoming more assumed. Its parts dovetail together. The first group, the scientific and professional societies, is provided with a medium of intercommunica-

¹ From the presidential address delivered at the anniversary meeting of the Royal Society and printed in *Nature*.