# SCIENCE

Vol. 76	Friday, September 2, 1932		No. 1966	
British Association for the Advancement of An Engineer's Outlook: Sir Alfred E		tons' Structure and Compo- FESSOR F. T. McLEAN		
The New Hydrobiological Laboratory on peake: Professor James G. Needham Obituary: Carl Leo Mees: Professor John B. Pr	1 205	Scientific Apparatus and Lab The "Molecular Still" as a Research: Dr. Julian W. I Reducing Lens: David F. C	a Tool of Biochemical HILL. An Inexpensive	
Scientific Events:  Survey of the Indian Ocean; The Office the United States; Reelfoot Lake Biol tion; Sigma Xi Lectures at the United California at Los Angeles	ogical Sta- iversity of	Special Articles: The Functional Characteris Fibroblasts: Dr. RAYMOND  Science News	C. PARKER 219	
Discussion:  Paleozoic Glaciation in Alaska: Profes Blackwelder. Is Ammonium Hydroxic Cotton Plants?: L. G. Willis, W. H. R Possible Hormone-secreting Region in Coleoptile: John T. Perry. Hasstiles Stiles and Hassall, 1894: William Nob. Septima Smith Scientific Books: Brandenburg's Seven-place and Six-place	leozoic Glaciation in Alaska: Professor Eliot ACKWELDER. Is Ammonium Hydroxide Toxic to tton Plants?: L. G. WILLIS, W. H. RANKIN. A ssible Hormone-secreting Region in the Grass leoptile: JOHN T. PERRY. Hasstilesia tricolor les and Hassall, 1894: WILLIAM NOBLE and DR. PTIMA SMITH 212		SCIENCE: A Weekly Journal devoted to the Advancement of Science, edited by J. McKeen Cattell and published every Friday by  THE SCIENCE PRESS  New York City: Grand Central Terminal  Lancaster, Pa. Garrison, N. Y.  Annual Subscription, \$6.00 Single Copies, 15 Cts.  SCIENCE is the official organ of the American Association 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.	

#### AN ENGINEER'S OUTLOOK<sup>1</sup>

By Sir ALFRED EWING, K.C.B., F.R.S.

Let me make a confession which may also serve as an apology. I have the unwelcome distinction of being the oldest president the association has ever suffered. In its primitive years the average age of presidents scarcely exceeded fifty: one of them, aged only twenty-nine, afterwards founded the Cavendish Laboratory, and so did a service to science which it would be impossible to overvalue. As time went on the choice fell on older men, and now the electors have taken what one hopes may be regarded as an extreme step. But, as it happens, this is not the first time I have read the president's address. At the Edinburgh meeting of 1921 the president, Sir Edward Thorpe, was prostrated by illness and asked me to act as his mouthpiece. The small service so rendered brought an unexpected reward. Some newspaper report must have confused the platform substitute with the real president, for a well-known novelist sent me a copy

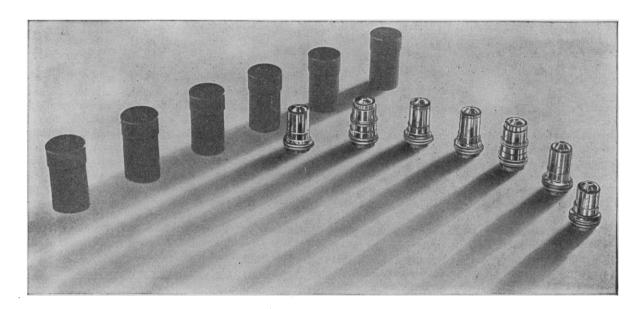
<sup>1</sup> From the address of the president of the British Association for the Advancement of Science, York, 1932.

of one of her romances, which was no doubt meant as a tribute to Sir Edward. It was called "The Mighty Atom"—an arresting title. Perhaps that is why I did not read beyond the title-page. Without close examination it was put by a more orderly hand than mine on a shelf that already held works on like subjects by authors such as J. J. Thomson and Rutherford and Bohr. "The Mighty Atom" was said to be one of the best sellers of its day: in that respect, if in no other, it found congenial company when it was joined on the same shelf by a series of volumes from the fascinating pens of Eddington and Jeans. These, however, I need not tell you I have read and reread, to my entire pleasure and partial understanding.

If "The Mighty Atom" was an arresting phrase, it was also an apt one. For we now know the atom to be indeed mighty in senses that were little suspected by the begetters of atomic theory. It has been mighty in sweeping away ideas that were found inadequate, in demanding fresh concepts, in presenting a new

## For Fine Results Use B&L

### Apochromatic Objectives



IN B& L Apochromatic Objectives, the chromatic correction is accomplished for three colors and the spherical correction for two colors. As a result practically all of the images produced by the different colors of the spectrum lie in the same plane and are equally sharp.

Apochromatic Objectives are excellent for *photographic use* with either white or monochromatic light for the violet light is brought

to the same focus as the visual rays.

Every step in the production of these outstanding objectives is B&L controlled. The glass is made in our own plant for only B&L glass meets B&L standards. Consequently we give our fullest guarantee to B&L Apochromatic Objectives.

Range of magnifications from 10X to 90X. Priced from \$26.00 to \$108.00. Write for full details.

#### BAUSCH & LOMB OPTICAL CO.

642 St. Paul Street

Rochester, N. Y.