tion, or the obstacles which arise when the whole economic basis of the community is disturbed by a cataclysm such as that which came upon us thirteen months ago. The sorry catchword "business as usual" must have sounded very ironically in the ears of many business men confronted with unforeseen and unprecedented difficulties on every side. The indomitable spirit with which they were met, the energy and determination with which they were overcome, afford further evidence of that which has been so gloriously demonstrated on land and sea, that the traditional courage and grit of the British race have not been lost.

To the question how have our oversea food supplies been maintained during the first year of the war, the best answer can be given in figures.

Imports of the principal kinds of food during the first eleven months of the war were as under, the figures for the corresponding period of 1913–14 being shown for comparison:

	1914–15, Thous- ands of Cwts.	1913–14, Thous- ands of Cwts.	Increase + or De- crease — Per Cent.
Wheat (including flour)  Bacon and hams.  Cheese.	113,797  15,868  7,452  2,766	5,975 2,386	$     \begin{array}{r}     -11.97 \\     +24.72 \\     +15.93     \end{array} $
Butter (including margarine) Fruit	5,376 18,830 9,573 35,029	17,512 4,840	$     \begin{array}{r}       -6.47 \\       +7.53 \\       +97.79 \\       -8.67     \end{array} $

In total weight of these food-stuffs, the quantity brought to our shores was rather larger in time of war than in time of peace. Yet one still occasionally meets a purblind pessimist who plaintively asks what the navy is doing. This is a part of the answer. It is also a measure of the success of the much-advertised German "blockade" for the starvation of England. So absolute a triumph of sea-power in the first year of war would have been treated as a wild

dream by the most confirmed optimist two years ago. The debt which the nation owes to our sailor-men is already immeasurable. That before the enemy is crushed the debt will be increased we may be assured. The crisis of our fate has not yet passed, and we may be called upon to meet worse trials than have yet befallen us. But in the navy is our sure and certain hope.

That which they have done is but earnest of the things that they shall do.

Under the protection of that silent shield the land may yield its increase untrodden by the invading foot, the trader may pursue his business undismayed by the threats of a thwarted foe, and the nation may rely that, while common prudence enjoins strict economy in husbanding our resources, sufficient supplies of food will be forthcoming for all the reasonable needs of the people.

R. H. REW

## THE MANCHESTER MEETING OF THE BRITISH ASSOCIATION

In an account of the meeting *Nature* states that the number of members and associates (1,438), although satisfactory in the circumstances, was small as compared with previous meetings. But it is said that the section rooms were well filled both in the morning and afternoon sittings, and the proceedings were of exceptional interest.

The reception by the Lord Mayor in the School of Technology on Wednesday evening was the only general social function of the week, but being fixed on the second day of the meeting it gave a welcome opportunity to members to meet their friends as well as to inspect the machinery, appliances and lecturerooms with which this great institution is equipped. The arrangements made by the committee for the visits of members to factories, warehouses, municipal undertakings and various places of special interest in Manchester and district worked well, and the short excursions were well attended. The citizen's lectures given in Manchester and other towns

in the neighborhood attracted large audiences.	Professor P. F. Kendall—List of characteristic fossils	10
The subjects dealt with were: "Evolution and War," by Professor F. W. Gamble; "The	Dr. J. Horne-Old red sandstone rocks at	
Strategic Geography of the War," by Dr.	Rhynie	25
Vaughan Cornish; "The Making of a Big Gun," by Dr. W. Rosenhain; "Daily Uses of	Gullane	8
Astronomy," by Mr. A. R. Hinks; "Health	SECTION D-ZOOLOGY	
Conditions in the Modern Workshop," by Professor B. Moore; "Formation of the Sun and	Dr. A. E. Shipley—Belmullet Whaling Station.	25
Stars," by the Rev. A. L. Cortie; "Some Les-	SECTION E-GEOGRAPHY	
sons from Astronomy," by Professor H. H.	Sir C. P. Lucas-Conditions determining selec-	
Turner; and on "Curiosities and Defects of	tion of sites and names for towns	15
Sight," by Dr. W. Stirling, professor of physi-	SECTION F-ECONOMIC SCIENCE AND STATISTIC	s
ology in the University of Manchester.	Professor J. H. Muirhead-Fatigue from eco-	
Grants of money appropriated for scientific	nomic standpoint	40
purposes on behalf of the general committee	Professor W. R. Scott—Industrial unrest	20
are given below. The names of members en-	Professor W. R. Scott—Women in industry	90)
titled to call on the general treasurer for	Professor W. R. Scott-Effects of war on	
grants are prefixed to the respective committees. Of the forty-one committees receiv-	credit, etc.	25,
ing grants, only five are new.	SECTION G-ENGINEERING	
	Professor J. Perry—Complex stress distribu-	
SECTION A-MATHEMATICAL AND PHYSICAL SCIENCE	tions	<b>40</b>
£	Er. Dugald Clerk—Gaseous explosions	50
Professor H. H. Turner—Seismological obser-	Dr. H. S. Hele-Shaw—Engineering problems	- 0
vations	affecting prosperity of the country	10
Sir W. Ramsay—Tables of constants 40	SECTION H-ANTHROPOLOGY	
Professor M. J. M. Hill—Mathematical tables. 35	Sir C. H. Read—Age of stone circles	25
SECTION B—CHEMISTRY	Professor G. Elliot Smith—Physical charac-	20
Professor H. E. Armstrong—Dynamic isomer-	ters of ancient Egyptians	15
ism	Dr. R. R. Marett—Paleolithic site in Jersey	25
Professor F. S. Kipping-Aromatic nitro-	Professor J. L. Myres—Archeological investi-	
amines 10	gations in Malta	10
Mr. A. D. Hall—Plant enzymes 10	Professor J. L. Myres—Distribution of Bronze	
Professor H. E. Armstrong—Solubility phe-	age implements	5
nomena 5	SECTION I—PHYSIOLOGY	
Professor H. E. Armstrong—Eucalypts 30		00
Professor Orme Masson—Influence of weather conditions on nitrogen acids in rainfall and	Sir E. Schäfer—Ductless glands	$\frac{20}{20}$
atmosphere	CHOMION IX DOMANY	
Professor W. J. Pope—Crystalline form and	SECTION K—BOTANY	
molecular structure	Professor F. O. Bower—Cinchona Station,	
Dr. F. D. Chattaway—Non-aromatic diazon- ium salts	Jamaica	12
Sir J. J. Dobbie—Absorption spectra, etc 10	plants	2
SECTION C—GEOLOGY	Professor F. F. Blackman—Heredity	45
Professor Grenville Cole—Old red sandstone	SECTION L—EDUCATION	
rocks of Kiltorean 7	Professor J. A. Green-Museums	15
Professor W. W. Watts-Critical sections in	Dr. G. A. Auden-School books and eye-sight.	5
Paleozoic rocks 20	Dr. C. S. Myers-Mental and physical factors.	20

## SCIENTIFIC NOTES AND NEWS

Dr. EDMUND B. WILSON, Da Costa professor of zoology, gave the annual address at the opening exercises of Columbia University on September 29, his subject being "Science and Education."

DEAN FREDERICK J. WULLING, of the College of Pharmacy of the University of Minnesota, was chosen president of the American Pharmaceutical Association, which held a session in San Francisco in August.

DR. THEOBOLD SMITH, director, and other members of the staff of the Rockefeller Institute for the Study of Animal Diseases which is being built near Princeton at a cost in the meighborhood of a million dollars, have started their work in a suite of four rooms loaned by the biology and geology departments of Princeton University. The buildings of the institutute will be on a tract of 480 acres, lying near the Walker-Gordon farms and are expected to be completed within a year.

Dr. A. F. BLAKESLEE, professor of botany and genetics, has taken up his work as plant geneticist at the Carnegie Institution Station for Experimental Evolution at Cold Spring Harbor, where he succeeds Dr. George H. Shull, who has become professor of botany at Princeton University.

THE Field Museum of Natural History announces the appointment of Dr. Berthold Laufer as curator of anthropology to succeed Dr. George A. Dorsey, resigned.

Mr. W. G. Craib, assistant for India in the Kew Herbarium, has been appointed assistant to the professor of botany in the University of Edinburgh. Mr. J. Hutchinson succeeds Mr. Craib at the Royal Gardens.

R. A. Jehle has been appointed plant pathologist of the Florida Plant Board. His work will be investigation of citrus canker, a serious disease of citrus fruits, which was

probably introduced into the United States from Japan a few years ago. His address will be Homestead, Florida.

Professor W. S. Franklin will make a tour of the universities and technical schools of the south and west during the coming fall and winter; and he offers to give, in connection with this trip, a number of theoretical and experimental lectures. Professor Franklin may be addressed during October and November at Columbia University, New York City.

At the forty-third annual meeting of the American Public Health Association, held in Rochester, N. Y., September 6 to 10, under the presidency of Professor William T. Sedgwick, of the Massachusetts Institute of Technology, the following officers were elected: President, Dr. John F. Anderson, director of the hygienic laboratory of the United States Public Health Service, Washington, D. C.; first vice-president, Dr. George W. Goler, health officer of Rochester, N. Y.; second vicepresident, Dr. Charles J. Hastings, medical officer of health, Toronto, Canada; third vicepresident, Dr. Omar Gillette, of Colorado Springs, Colo.; treasurer, Dr. Lee K. Frankel, of New York (reelected); secretary, Professor Selskar M. Gunn, of Boston (reelected). The following were elected to honorary membership in the association: Surgeon-General William C. Gorgas, United States Army: Dr. Stephen Smith, of New York, a member of the State Board of Charities; Dr. Frederick Montizambert, of Ottawa, director general of public health of the Dominion of Canada; and Dr. Henry D. Holton, of Brattleboro, Vt.

Professor Henry R. Francis, of the Landscape Extension Service of the College of Forestry at Syracuse, is completing a field study of the 300-mile highway which is being planned by the Massachusetts Forestry Association and which will run from Boston westward nearly to the New York line and then turn back eastward to Cambridge.

Nelson C. Brown, professor of forest utilization in the State College of Forestry at Syracuse, has returned from a 6,000-mile trip