•		
to regard mathematics as consisting merely of formulæ and of rules which provide the means of performing the numerical compu- tations necessary for solving certain cate-	Geology  Harker, Dr. A.—Crystalline Rocks of Anglesey Tiddeman, R. H.—Erratic Blocks  Lapworth, Professor C.—Paleozoic Rocks  Watts, Professor W. W.—Composition of	2 10 10
gories of problems which occur in the prac- tical sciences. Apart from the deplorable	Charnwood Rocks	2
effect, on the educational side, of degrading mathematics to this level, the practical effect of reducing it to a number of rule-of-	ciated Sedimentary Rocks of Glensaul Bourne, Professor G. C.—Mammalian Fauna in Miocene Deposits, Bugti Hills, Baluchis-	15
thumb processes can only be to make those	tan	45
who learn it in so unintelligent a manner incapable of applying mathematical meth-	Woodward, Dr. H.—Index Animalium Hickson, Professor S. J.—Table at the Zoo-	75
ods to any practical problem in which the data differ even slightly from those	logical Station at Naples	75 -
in the model problems which they have studied. Only a firm grasp of the prin-	Birds Shipley, Dr. A. E.—Belmullet Whaling Station	5 30
eiples will give the necessary freedom in handling the methods of mathematics	Bourne, Professor G. C.—Mammalian Fauna in Miocene Deposits, Bugti Hills, Baluchistan	<b>30</b>
required for the various practical problems in the solution of which they are essential.	Geography	96
E. W. Hobson.	Chisholm, G. GMap of Prince Charles	
GRANTS BY THE BRITISH ASSOCIATION	Foreland	30
At the Sheffield meeting of the British As-	Maps	20
sociation the sum of £1,090 was appropriated for scientific work, the grants being as follows:	Economic Science and Statistics Cannan, Professor E.—Amount and Distribution of Income	5
Mathematical and Physical Science	tion of income	•
Turner, Professor H. H.—Seismological Ob-	${m Engineering}$	
servations         £60           Shaw, Dr. W. N.—Upper Atmosphere         25	Preece, Sir W. H.—Gaseous Explosions  Anthropology	90
Preece, Sir W. H.—Magnetic Observations at Falmouth	Munro, Dr. R.—Glastonbury Lake Village Myres, Professor J. L.—Excavations on Ro-	5
Gill, Sir David—Establishing a Solar Ob-	man Sites in Britain	10
servatory in Australia	Read, C. H.—Age of Stone Circles Read, C. H.—Anthropological Notes and	30
Commission on Physical and Chemical Constants	Queries	40
Chemistry	land Lochs	10
Divers, Professor E.—Study of Hydro-aro-	Physiology	
matic Substances	Schäfer, Professor E. A.—The Ductless	
Armstrong, Professor H. E.—Dynamic Iso-	Glands	40
merism	Sherrington, Professor C. S.—Body Metabolism in Cancer	6
Aromatic Nitroamines	Hickson, Professor S. J.—Table at the Zoolog-	0.5
Kipping, Professor F. S.—Electro-analysis 15 Arnold, Professor J. O.—Influence of Carbon,	ical Station at Naples	25
etc., on Corrosion of Steel 15	nomena in Plants	10

Waller, Professor A. D.—Anesthetics	20
Sherrington, Professor C. SMental and	
Muscular Fatigue	25
Starling, Professor E. H.—Dissociation of	
Oxyhemoglobin	25
Botany	
Scott, Dr. D. H.—Structure of Fossil Plants	15
Darwin, Dr. FExperimental Study of	
Heredity	45
Johnson, Professor T.—Survey of Clare Island	20
Oliver, Professor F. W.—Registration of Bot-	
anical Photographs	10
Education	
Findlay, Professor J. JMental and Phys-	
ical Factors	10
Corresponding Societies Committee	
Whitaker, WFor Preparation of Report	20

## SCIENTIFIC NOTES AND NEWS

SIR WILLIAM RAMSAY has been elected president of the British Association for the meeting to be held next year at Portsmouth. The meeting of 1912 will be at Dundee. The meeting of 1914 will be held in Australia in the cities of Adelaide, Melbourne, Sidney and Brisbane. The commonwealth government has voted £10,000 toward the expenses of the meeting, and the several states will make additional contributions.

THE Accademia dei Lincei of Rome has elected foreign members as follows: E. G. van de Sande Bakhuyzen in astronomy; John Henry Poynting for physics; Armand Gautier in chemistry; Wilhelm Waldeyer and Richard Hertwig for zoology and morphology, and Max Verworn and Ludimar Hermann for physiology.

Dr. Willy Wien, professor of physics in the University of Würzburg; Dr. Felix Marchand, professor of pathology at the University of Leipzig; Dr. Friedrich Merkel, professor of anatomy at the University of Göttingen; Dr. Gustav Schwalbe, professor of anatomy at the University of Strasburg, and Dr. Oswald Schmiedeberg, professor of pharmacology at the University of Strasburg, have been elected corresponding members of the Berlin Academy of Sciences.

Professor Czerny will preside over the second International Conference for the Study of Cancer to be held in Paris from October 1 to 5.

At the thirty-eighth annual meeting of the American Public Health Association, held in Milwaukee, September 6 to 9, Dr. Robert M. Simpson, of Winnipeg, Man., was elected president.

Dr. Herman A. Spoehr, assistant in chemistry in the University of Chicago, has been appointed a member of the staff of the department of botanical research of the Carnegie Institution of Washington. Dr. Spoehr is investigating certain problems in plant physiology which lend themselves to the application of chemical methods.

Mr. D. P. Roberts, electrical engineer at London, Ont., Canada, has been appointed electrical expert and inspector for the British Columbia government.

SEVERAL collections of bees from the British Museum and from the Berlin Museum were classified by Professor Theodore D. A. Cockerell at the request of those institutions this summer. During the latter part of the summer he has been working on a collection of fossils sent to him for classification by the American Museum of Natural History of New York.

DEAN MILO S. KETCHUM returns to the University of Colorado after a year's leave of absence. As a member of the firm, Crocker and Ketchum, consulting engineers, Denver, he has been designing and constructing bridges, viaducts, dams and reinforced concrete structures. He is now consulting engineer for the Albion dam which the city of Boulder is to build.

Professor Josephine Tilden, of the department of botany of the University of Minnesota, who spent the year in New Zealand studying the algæ of the southern Pacific, has returned to the university.

It is proposed to name the new hospital for contagious diseases at Buffalo after the late Dr. Ernest Wende, as a memorial of his services as a sanitarian and health officer.