41 E.—5.

bridges, a universal-reading microscope, a pair of ordinary-reading microscopes, six ball-bearing pulleys, and apparatus for obtaining the mechanical equivalent of heat; a Pentane lamp; a microscope; a demonstration lantern; Professor Hele-Shaws' stream-line apparatus; apparatus for experiments on deflection of columns; helical-springs torsion, Young's modulus, experimental worm-wheel, experimental arch, fluid-tanks, spouting-tanks, experimental weirs, a gas-engine model, apparatus for illustrating the latent heat of steam, indicator models, a complete set of folding planes and models for the teaching of solid geometry from G. Cussons, Manchester; a set of Professor Wiener's geometrical models. In addition to the above the following apparatus has been designed in the School of Engineering and manufactured locally: An impact testing-machine; a copper bath for heat-treatment of steel-test specimens; a bath for heat-treatment of cement; two sets of water gear for brake-horse-power tests; switchboards, terminal board, plugboards; two model armatures for experimental work; and two parabolic mirrors. An omnimeter has been purchased for the field class in surveying. The Westinghouse Brake Company presented the school with a compound Westinghouse steam air-compressor, which will be installed in the new hydraulics laboratory, and full-sized sectional models of the standard Westinghouse steam air-pump, combined quick-acting brake set, and the driver's brake valve. A large number of tests were made in the engineering laboratory on materials submitted by cement-manufacturers, brick and tile manufacturers, and also on oils, cast iron, trolley-wires, bolts, steel plates, &c. Gratifying acknowledgments of the utility of this section of the school in assisting the industries of the country have been received from those for whom investigations have been carried out.

Statement of Receipts and Expenditure for the Year ending the 31st December, 1905.

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Receipts.	£	s.	d.	Expenditure.	£	s.	đ.
Balance at 1st January, 1905	756	17	6	Salaries	2,034	13	4
Contributions from Museum, Library, and					107		
School of Technical Science Endow-				Instruction in surveying	193		
	500	Λ	^				
	000	v	v	Contribution towards expenses of Registrar's	10	•	•
Contribution towards salary of lecturer on	150	0	^	06.5	60	٥	0
electrical engineering	150	U	U	0 2 4 1 2 4 1 2		4	
Contribution towards expenses of Electrical		_	_		-		-
Laboratory	150	0	0	Insurance		13	8
Grants from Superior Education Reserves				Printing and stationery		19	3
(College)—				Advertising		3	9
For scholarships and maintenance	590	0	0	Fuel (coal and gas)		2	
Towards salary of lecturer on electrical				Laboratory stores		8	7
engineering	150	0	0	Cleaning machinery	135	16	2
Towards expenses of Electrical Labora-			-	Experimental work and apparatus (applied			
tories	150	Ω	0	mechanics and mechanical engineering)	154	9	4
Students' fees	944		Ö	Experimental work and apparatus (elec-			
Students' fines		11	-	tricity and Electrical Engineering			
Government grant for technical instruction	371		1	Laboratory)	145	8	3
		9		Stores and chemicals (Electrical Engineer-		•	•
Testing fees	-91	9	U	ing Laboratory)	1.9	15	5
Government grant for specialisation in				Upkeep of plant, general repairs to ma-	10	10	.,
engineering				chinery	117	0	Đ
Interest		16					
Fee for certificate of associateship	1	1	0		90	14	9
Balance	41	6	0	Apparatus—Pass and Honours Electrical	1 000	-	^
•				Laboratories	1,005	Ð	9
				Expenses of appointment of lecturer and			
				demonstrator in electric engineering		_	
			1	(including passage-money)	118		
			ļ	Apparatus (£1,500 vote)	472		
			-	New building (Hydraulic Laboratory)	489	6	6
				Professor Scott—share of testing-fees	28	17	6
•	£5,379	14	7		£5,379		1
		==	1		ಪ್ರ, ರೀಶ	14	4.
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ROBT. J. SCOTT, M.I.C.E., Professor in Charge.

SOUTH CANTERBURY.

EXTRACT FROM THE REPORT OF THE EDUCATION BOARD.

Mechanical and Technical Instruction.—The number of schools taking up this work continues to increase; and, indeed, there are few schools in the district in which some of the subjects provided for in the Act are not successfully taught. The amount of capitation earned during the year by the various primary schools amounted in the aggregate to about £550. The newly appointed teacher of cookery took up her duties in February, and her classes have been well attended and successfully conducted. At the end of the year a teacher of woodwork was appointed to commence duties early in 1906. Arrangements have been made for the teaching of the subjects of cookery and woodwork to the upper classes of eight of the larger schools, and the number will be gradually increased. Classes for the training of teachers in manual and technical subjects were conducted at Timaru and Waimate, those at the former place being well attended. Twelve teachers passed the City and Guilds first-year examination in woodwork, and intend sitting for the final examination during 1906. Seventeen others passed the St. John's Ambulance Association examination for first aid. During the week before Christmas a summer school for the instruction of teachers in cardboard modelling and geology was held, nearly all the teachers in the district attending. The former class was taught by Mr. Isaac, Inspector of Technical Schools, assisted by Mr. Clarke, of Stratford; the latter class by Dr. Marshall, of the Otago University. The attendance at these classes was good, the teachers took a keen interest in their work, and the instruction must result