public bodies, and the cases in which no inspection had been made by any competent person for several years before the explosion.

A report by the Board's Solicitor on the formal investigations is given in Appendix C. In three out of the four cases in which these investigations were held, the Courts found that persons who had been connected with the boilers were to blame for the explosions, and they made orders for the payment of costs in all of these cases, the total sum ordered to be paid amounting to $\pounds780$.

Statistics of the explosions which have occurred each year since 1882 are shown in Appendix D.

ERNEST G. MOGGRIDGE,

Assistant Secretary.

BOARD OF TRADE, MARINE DEPARTMENT.

No. of Report.	General description and age of boiler or vessel which exploded.	Part of the boiler which gave way.	Purpose for which boiler was used.
2259	Single-ended marine type. 16 years.	The joint of a manhole door was blown out.	Propelling the vessel.
2260	Locomotive type. Age of boiler 27 years. Age of tube 5 years.	One of the tubes.	Shunting pur- poses.
2261	Cast-iron blow- down pipe. 4 years.	Pipe fractured.	Blowing down the boilers.
2262	Cast-iron oil puri- tier. 1 month.	Whole apparatus wrecked.	Vaporising ben- zene from a mixture of oil and benzene.
2263	Vertical type. 8 years.	Bottom of eross tube fractured.	Supplying steam to capstan used for hauling in the fishing nets.
226 <u>4</u>	Cast-iron steam- heated hose press 6 years.	Both the hollow steam heated blocks forming the press were shattered.	Finishing hosiery goods.

Whether inspected or insured by any Company or Association, &c.	Cause of Explosion.
Inspected by Surveyors to Lloyd's Register and insured by various Companies.	The upright of the manhole door was a bad fit in the hole.
Ocean Accident and Guarantee Corporation, Limited.	Wasting of the tube intern- ally by corrosion and erosion.
Not inspected or insured by any Company or Association.	The pipe was so reduced in thickness by internal and slight external corrosion that it failed to withstand the pressure generated.
Not inspected or insured by any Company or Association.	Overpressure, due to the safety valve being set fast on its seat.
Not inspected; insured by The North British Fishing Boat Insurance Company, Ltd.	Corrosion on the water side.
Not inspected by any Com- pany or Association.	The block which burst was unable to withstand the ordinary working pressure owing to the development of flaws in the material.

No, of Report	General description and age of boiler or vessel which exploded.	Part of the boiler which gave way.	Purpose for which boiler was used.
2265	S i n g l e-e n d e d marine type. About 8½ years.	A fracture de- veloped in the front end plate i m m e d i ate ly above the port furnace.	Propelling the vessel.
2266	Cast-iron steam trap. 8 years.	Trap completely broken up.	In connection with an iron- machine.
2267	Single-ended marine type. 6 years.	The crown of the port combustion chamber col- lapsed.	Propelling the vessel.
2268	Two tubes in a baker's oven. 3 years.	Tubes burst.	Heating the oven.
2269	Portable loco- motive type. 37 years.	One of the smoke tubes.	Driving a mortar mill.
2270	Cast-iron steam- jacketed pan. Age not ascer- tained, but probably over 20 years.	Outer pan frac- tured.	Melting pitch.

Whether inspected or insured by any Company or Association, &c.	Cause of Explosion.
Inspected by Surveyors to Lloyd's Register, and in- sured with Lloyd's Under- writers.	Fatigue of the metal owing to expansion and contraction stresses.
Not inspected or insured by any Company or Association.	Overpressure.
Inspected by Surveyors to Lloyd's Register and in- sured by Lloyd's Under- writers.	Overheating of the plate through shortness of water owing to neglect of atten- dant to test the water gauge properly.
Not inspected or insured by any Company or Association.	The tubes failed under severe working conditions caused by a greater length of the tubes being exposed to the fire than was originally in- tended.
Vulcan Boiler and General Insurance Company, Ltd.	Wasting of the tube by corro- sion and crosion.
Not inspected or insured by any Company or Association.	The reducing valve was in- operative, so the pan was subjected to a pressure greater than it was able to withstand.

2271	Hot-closet, with steam chambers at the top and bottom. $3\frac{1}{2}$ years.	The upper steam chamber ex- ploded.	Keeping food hot.
2272	Steam-jacketed pan. Age not ascer- tained, but over 10 years.	The brazed seam securing the flanges of the inner and outer pans gave way for a distance of 3 ft. round the circumference.	Boiling meat and rendering lard.
2273	Blow-off valve. 2 years.	The blow-off pipe fractured at the neck of the flange.	Blowing down the boiler.
2274	Single-ended marme type. 5 years.	A salt chamber in the starboard c o m b u st i on chamber ex- ploded.	Propelling the vessel.
2275	Cast-iron stop- valve chest. Age not ascer- tained, but over 19 years.	Chest fractured.	Controlling sup- ply of steam to haulage engine.
2276	Heating apparatus Age not ascer- tained.	The outlet cir- culating pipe was forced from its socket.	Heating the building.

Do	Overpressure, due to the re- ducing valves being inopera- tive and the outlet pipe being blocked.
Do.	Overpressure, due to reducing valve being inoperative.
The Vulcan Boiler and General Insurance Com- pany, Limited.	Excessive stresses owing to the blow-off pipe being inade- quately supported.
Inspected by Surveyors to Lloyd's Register. Insured by The West of England Steamship Owners' Protec- tion and Indemnity Associa- tion and various Marine In- surance Companies.	The salt chamber was formed through leakage round stays in the back plate of the combustion chamber.
Not inspected or insured by any Company or Association.	Water-hammer action.
Do.	Ineffectual method of attach- ing the outlet pipe to the boiler.

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No. of Report.	General description and age of boller or vessel which exploded.	Part of the boiler which gave way.		Parpose for which boiler was used.	Purpose for which Whether inspected or insured by any boiler was used. Company or Association, &c.
2277	Vertical marine type. About 2½ years.	The packing in the stuffing box of the inspec- tion door was destroyed and steam and water escaped.		Propelling the vessel.	Propelling the North of Scotland Mutual vessel. Association.
278	S in gleen de d marine type. 124 years.	Two rivets in the back end cir- cumferential seam of the shell were forced out.		Propelling the vessel.	Propelling the United Scottish Herring Vessel. Drifter Insurance Company, Limited.
\$279	Singleended marine type. 17 years.	A nut on one of the stays split open and was forced over the thread; then plate then	-	Propelling the Vessel.	Propelling the Mutual Steamship Insurance Vessel. Company.
280	Cast-iron blow-off pipe. Age not ascer- tained.	Pipe was fractured close to a flange.	BI	owing down the boiler.	owing down the Not inspected or insured by boiler.
281	Lancashire type. 31 years.	A patch on the bottom of the boiler fractured.	Sur to	plying steam pumping and inding ma-	plying steam pumping and binding ma- binoury

REPORT TO BOARD OF TRADE.

2282	Heating boiler. 4 years.	Boiler completely ruptured.	Supplying hot water for vari- ous purposes in the hotel.
2283	Cast-iron stop- valve chest. 12 ¹ / ₃ years.	Chest factured circumferenti- ally just below the top flange and at the bot- tom of the body.	Controlling sup- ply of steam to ongines.
2284	Drying cylinder. 18 years.	Cylinder rup- tured through the longitudinal seam and cir- cum ferentially at each end.	Drying cloth in process of manufacture.
2285	Cast-iron steam pipe. 28 years.	Pipe fractured close to a flange; the en- gine stop-valve chest also frac- tured.	Conducting steam to engine.
2286	Starboard main steam pipe Age of part which failed, about 2 months.	The pipe frac- tured circumfer- entially close to the flange bolted to the boiler stop-valve.	Conducting steam to engine.
2287	Copper main steam pipe. 16 months.	Pipe fractured circumferenti- ally close to a flange.	Conducting steam to engine.

Do.	Overpressure, due to the inlet pipe being blocked by scale, and a tap on the outlet pipe being of insufficient area to allow the steam generated to escape freely.
Do.	Deterioration of the material due to superheated steam.
Not inspected or insured by any Company or Association.	Overpressure, the outlet being blocked by ice.
Do.	The pipo failed under ordi- nary working conditions owing to fatigue of the metal due to expansion stresses set up in the pipe range.
Inspected by Surveyors to Lloyd's Register and in- sured by Lloyd's Under- writers and other insurance companies.	Failure of the pipe to with- stand stresses caused by vibration of the engines and expansion due to heat.
Inspected by Surveyors to The British Corporation for Sur- vey and Registry of Ship- ping, and insured with Lloyd's Underwriters and other insurance companies.	Vibratory stresses acting on material rendered brittle by overheating in the course of brazing on the flange.

No. of Report.	General description and age of boiler or vessel which exploded.	Part of the boiler which gave way.	Purpose for which boilor was used.	Whether inspected or insured by any Company or Association, &c.	
2288	Vertical type. 84 years.	The vertical seam and the seam of the crown plate of the firebox failed and the plate collapsed.	Driving ma- chinery.	Not inspected or insured by any Company or Association	5.1
2289	Cast-iron steam pipe. About 7 years.	P i p e fractured longitudinally.	Conducting steam to air com- pressor engine,	Do.	
2290	Revolving rag boiler. 9 years.	The cover of the right hand filing aperture became tached from the boiler.	Boiling rags and other material in the process of paper mak- ing.	The Gresham Fire and Acci- dent Insurance Society, Limited.	
2291	Copper steam- jacketed pan. 10 years.	The bottom was forced up and ruptured.	Boiling confec- tionery.	Not inspected or insured by any Company or Association.	
2292	Vertical type. Age not ascer- tained.	The blow-down cock connection to the boiler- shell failed and and the cock was blown off.	Supplying steam for having and pumping pur- poses.	The British Engine, Boiler, and Electrical Insurance Company, Limited.	
2293	Portable locomo- tive type. 5 years.	One of the screwed gun- metal cleaning hole plugs in the front tube plate was blown	Road haulage.	National Boiler and General Insurance Company, Limited.	

Tube in steam oven. 2 years.	Cornish type. Furnace complete 32 years. lapsed.	Beesley boiler. The first the cen 22 years. collapsed of the r fracture cumferei	Main steam pipe. Pipe blew 10 years.	Vertical. The side of the 36 years. several tions.	Locomotive type Boiler she (ploughing en- gine). ing fr in seve 37 years. rections.	Cast-iron steam Part of t isolating valve and covv chest. blown o 8 months. places.
	Furnace complete lapsed.	The first the cen collapsed the full of the r fracture cumfere	Pipe blew flange a	The side of the upturne several tions.	Boiler she ing fr in seve rections.	Part of t and cover blown o the chee tured in places.
Tube burst vio- lently.	ly col-	ring of tre flue i for length ing and d cir- ntially.	out of t joint.	plating firelox d in direc-	all plat- actured ral di-	he side er were ut and st frac-
Heating the oven.	Supply steam to blast engines, &c.	Suplying steam for works pur- poses.	D istributing steam to ma- chinery used in manufacture of armour plating.	Generating steam for the engine of a pile- driver.	Generating steam for engine.	Controlling supply of steam to cargo pumps.
Not inspected or insured by any Company or Association.	The Vulcan Boiler and Gen- eral Insurance Company, Limited.	Scottish Boiler Insurance and Engine Inspection Com- pany, Limited.	Not inspected or insured by any Company or Association.	Do.	Not inspected or insured at time of explosion by any Company or Association.	Inspected by Surveyors to Lloyd's Register and insured by Lloyd's Underwritere.
Overpressure, due to over- heating.	The furnace tube was worn out and unable to withstand the working pressure.	The centre flue tube was worn out.	Attrition caused by rocking motion in vertical pipe.	Overpressure, due to overloud. ing of safety valve.	Plating was defective.	Water-hammer,

No. of Report.	General description and age of boiler or vessel which exploded.	Part of the boiler which gave way.	Purpose for which boiler was used.
2301	Tube in baker's oven. 3 years.	Tube failed for over half its length through the weld and the solid metal opposite.	Heating the oven.
2302	Two tubes in a baker's oven. Age of tubes not ascertained.	Tubes burst	Heating the oven.
2303	Cylindrical r e- turn tube type. 14 years.	Two small holes developed in one of the plain tubes close to the back tube plate.	Propelling the vessel.
2304	Single-ended marine type. 16 years.	Front end plates of the boilers fractured cir- c unferentially where flanged to take the wing furnaces.	Propelling the vessel.
2305	Cast-iron hot- plate. Age not ascer- tained.	The vertical sides of the hot- plate fractured circumferenti- ally.	Heating and dry- ing sawdust.

Cause of Explosion,	0
Defective weld.	REP
Overpressure, caused by over- heating.	ORT TO
The tube was so reduced in thickness by pitting that it was unable to withstand the working pressure of the boiler.	BOARD ()
Plates were weakened by ex- pansion and contraction stresses, and failed under ordinary working conditions.	F TRADE.
Undue working pressure.	
	Cause of Explosion. Defective weld. Overpressure, caused by over- heating. The tube was so reduced in thickness by pitting that it was unable to withstand the working pressure of the boiler. Plates were weakened by ex- pansion and contraction stresses, and failed under ordinary working conditions. Undue working pressure.

REPORT TO BOARD OF

11v	rery pipe.	A piece of the pipe was blown out.	Conducting feed w at er from economiser to boilers,	Ă	ė
aor Sin mi	tgleended arine type. 3 years.	Furnaces col- lapsed.	Propelling the vessel.		The United Scottish Herring Dritter Insurance Company, Limited.
Ag Yea Ag Ag du	m-pipe joint. ge of pipe, 1 ar. ge of joint, 6 ys.	A portion of the asbestos ring forming the jointing material was forced from between the flanges.	Conveying steam to pumps.	Z.	ot inspected or insured by any Company or Association.
309 Vert	tical type. ge not ascer- ined.	Firebox collapsed and ruptured.	Heating food for pigs.		Do.
310 Two	o tubes in a eam oven. 8 years.	Tubes burst.	Baking pastries.	an I as	proted by an engineer-in- proter to the United Lega ademnity Insurance Society, vot insured by any Com- any or Association.
pil Ran	ge of steam- pes. 6 years.	One of the pipes failed at the longitudinal seam.	Connecting a set of water-tube boilers to a pair of Lancashire boilers.	No	t inspected or insured by iny Company or Association.
al2 Sin m	ıgle-ended arine type. 16 years.	Upper part of the sturboard com- bustion chan- ber back plate collapsed.	Propelling the vessel.	C A A S	inishy Steam Fishing Ves- eis' Mutual Insurance and "rotecting Company. Ltd. Loo inspected by Surveyors o Lloyd's Register.

With the second se			
No. of Report-	General description and age of boiler or vessel which exploded,	Part of the boiler which gave way.	Purpose for which boiler was used.
2313	Revolving rag boiler. Age not ascer- tained, but over 25 years.	The middle strake of plate in the cylindrical shell fractured cir- cum ferentially th rough the seams at the rivet holes.	Boiling rags and paper.
2014	Cast-iron blow- down valve chest. 1 year.	Chest fractured close to one flange.	Blowing down the boiler.
2315	Drying cylinder. 1 month.	One of the longi- tudinal seams ripped open the full length of cylinder.	Drying rubber- ized cloth.
2316	Drying cylinder. 14 years.	The inlet end of the cylinder was partially forced out.	Drying cotton yarn.
2317	L.P. receiver of a Corliss engine. 18 years.	The top flat wall of the receiver was blown out and broke in pieces.	Driving ma- chinery in mill.

Cause of Explosion.
Overpressure, due to the safety valve being blocked by rags.
7.
Expansion stresses caused a flaw to develop until the chest failed as stated.
Overpressure, due to the ob- struction of the outlet from the cylinder and to a leaky reducing valve.
The circumferential seam at the inlet end of the cylinder was defective.
Overpressure, due to the high- pressure piston leaking and the relief valve being over loaded.

2318	S ingleended marine type. 21 years.	A small hole de- veloped in the bottom of the shell plate.	Propelling the vessel.	Not inspected or insured by any Company or Association since 1905.	Local external and corrosion.
2319	Water-tube type. 9 years.	One of the tubes.	Supplying steam to electric plant.	Vulcan Boiler and General Insurance Company, Ltd.	External corre
2320	Cast-iron feed water pipe. 21 years.	Pipe fractured circumferenti- ally at root of flange.	Supplying feed water to boilers	Inspected in 1907 by Man- chester Steam Users, Asso- ciation. Not insured.	Fatigue of met tion set up feed pumps.
2321	S i ngleended marine type. 20 years.	Crown plate of combustion chamber col- tapsed.	Propelling the vessel.	Lincolnshire Steam Trawlers' Mutual Insurance and Pro- tecting Company, Limited.	Overheating, J of water,
2322	Verticat. Age uncertain.	The lower ring of the firebox plat- ing ruptured circumferenti- ally.	Driving a beam pump.	The Law Accident Insurance Society, Limited.	Weakness of arising from
2323	Cast-iron evapo- rator. 3 years.	The shell, heating coil and pipe connections were fractured.	Distilling fresh feed water for boilers.	Insured by Iloyd's Under- writers and various Com- panies.	Overpressure.
2324	Babcock & Wilcox marine water- tube type. 3 years.	Tube ruptnred longitudinally.	Propelling the vessel.	Inspected by Surveyors to the Board of Trade. Insured by Lloyd's Underwriters.	Overheating, d posit in tube.
2325	Cast_iron evapo- rator. 14 years.	Lower part of evaporator shat- tered.	Distilling fresh feed water for boilers.	Inspected by Surveyors to British Corporation. In- sured by various Under- writers.	Corrosion.
2326	S in g l e-e n d e d marine type. 12 vears.	The crown plate of the cornius- tion chamber collarsed.	Generating steam for propelling machinery.	The Total Loss Mutual Steam- ship Insurance Company.	Overheating, d of water.

CLASSIFICATION OF CAUSES OF EXPLOSIONS AND TYPES OF BOILERS WHICH EXPLODED, 1913-1914.

Causes of Explosion.	No. of Cases.
Deterioration or corrosion.—Nos. 2,260, 2,261, 2,263, 2,265, 2,269, 2,278, 2,279, 2,281, 2,283, 2,292. 2,293, 2,297, 2,299, 2,303, 2,304, 2,369, 2,318, 2,319, 2,320, 2,325 Defective design or undue working pressure.—Nos. 2,262, 2,264, 2,266, 2,268,	20
2,270, 2,271, 2,672, 2,282, 2,283, 2,295, 2,296, 2,302, 2,305, 2,316, 2,313, 2,315, 2,317, 2,323, 2,326 Water-hammer action.—Nos. 2,275, 2,289, 2,300, 2,311	19 4
Defective workmanship, material, or construction.—Nos. 2,259, 2,276, 2,280, 2,286, 2,287, 2,288, 2,290, 2,301, 2,306, 2,308, 2,316, 2,322 Ianorance or nealect of attendants.—Nos. 2,267, 2,273, 2,277, 2,284, 2,294.	12
2,298, 2,312, 2,314, 2,321	9 4
Total	68

Types of Boilers.	No. of Cases.
Horizontal multitubularNos. 2,259, 2,265, 2,267, 2,274, 2,278, 2,279,	
2,303, 2,304, 2,307, 2,312, 2,318, 2,321. 2,326	13
Vertical.—Nos. 2,263, 2,277, 2,288, 2,292, 2,298, 2,309, 2,322	7
Lancashire, Cornish and other flue boilersNos. 2,281, 2,295, 2,296.	3
Locomotive. Nos. 2,260, 2,269, 2,293, 2,299	4
Water-tube.—Nos. 2,319, 2,324	2
Tubes in steam ovens Nos. 2,268, 2,294, 2,301, 2,302, 2,310	5
Heating apparatus. Nos. 2.276, 2.282	2
Steam pipes, stop-valve chests, &cNos. 2.215, 2.283, 2.285, 2.286, 2.287.	
2.289, 2.297, 2.300, 2.308, 2.311, 2.320	11
Hot-plates. &c Nos. 2.264, 2.271, 2.305	3
Calenders, druing culinders, &cNos, 2.284, 2.315, 2.316	3
Economisers.	
Steam-jacketed nans. Nos. 2,270, 2,272, 2,291	3
Rag bailers, kiers, stills, &c Nos $2,262,2,290,2,313$	3
Miscellaneous - Nos 2 261 2 266 2 273 2 280 2 306 2 314 2 317 2 323	å
3.325	5
Total	68

INSPECTION OF BOILERS WHICH FAILED.

		No. of Cases.
1.	Cases in which the boilers were under the inspection of public bodies, Nos. 2,259*, 2,260, 2,265, 2,267*, 2,269, 2,273* 2.274, 2,277*, 2,278, 2,279*, 2,286*, 2,287, 2,290*, 2,292, 2,293*, 2,295, 2,296, 2,300* 2,303, 2,304 2,307* 2,310* 9,310* 9,317* 9,310 2,329 2,324 2,326*	90
2.	Cases in which no inspection had been made by a competent person for several years before the explosion, Nos. 2,261, 2,263, 2,264, 2,266,	20
	2,268, 2,270, 2,271, 2,281, 2,291, 2,294, 2,299, 2,305, 2,309	13

• In these 14 cases the explosions were not due to defects in the material of the boilers.

STATISTICS.

TOTAL NUMBER OF EXPLOSIONS dealt with since the passing of the Acts, NUMBER OF LIVES LOST, and NUMBER OF PERSONS INJURED.

					Pe	ersomal Injuries.	
	Yea	г.		No. of Explosions.	No. of lives lost.	No. of persons injured.	Total.
1882-83				45	35	. 33	68
1883-84				41	18	62	80
1884-85				43	40	62	102
1885-86				57	33	79	112
1886-87				37	24	44	68
1887-88			••	61	31	52	83
1888-89	••	••		67	33	79	112
1880-00	••	••		77	21	76	97
1800-01	••	••	•••	79	32	61	93
1801-09	••	••	•••	88	23	82	105
1809-02	••	••	••	79	20	37	57
1994-90	•••	••	••	104	20	54	78
1000-04	••	••	••	111	43	85	128
1094-90	•••	••	11	70	25	48	73
1093-90	•••	••		80	20	75	102
1090-91	••	••	••	84	27	46	83
1097-90	••	••	••	69	26	67	103
1898-99	••	••	••	50	04	65	80
1899-1900	••	••	••	09 70	21	60	03
1900-1	••	••	••	- 12	00	55	85
1901-2	••	••	••	08	30	00	80
1902-3	••	••	••	69	22	01	05
1903-4	••	••	•••	60	19	40	0+
1904-5	••	••	••	57	14	40	0± 12
1905-6	••	••	••	54	25	21	40
1906-7	••	••	••	77	28	60	90
1907-8	••	•••	••	73	23	50	13
1908-9	••	••	••	93	12	53	60
1909-10	••	••	••	103	14	62	10
1910-11	••	••	••	100	13	61	74
1911-12	••	••		106	30	75	105
1912-13		••		80	31	42	73
1913-14	••	•••	••	68	22	74	96
	Т	otals		2,328	842	1,877	2,719
Avera	geof	32 year	rs	72.8	26.3	58-7	85.0

NOTE.—The apparent discrepancy between the total number of reports published up to the end of the year (2,323) and the consecutive identification number (2,326) borne by the latest report included in this year's statement is due to the reports which followed No. 1,888 having been numbered 283A and 1,888A, instead of 284 and 1,889 respectively.

ELECTION OF MEMBERS.

List of Members elected at the meeting of Council held on the 18th May, 1915:—

As Members.

John Allan, 51, Cranford Road, Aberdeen.
Duncan Murray, Marine Engineers' Institute, Shanghai.
John McRae Knight, "Craiglyn," Milford Haven.
John Leslie Rutherford, 55, Warren Road, Leyton, N.E.
John Roxburgh, c/o Messrs. Butterfield & Swire, Shanghai, China.

As Associate Member.

John Alex. Chas. Frogley, 80, Gough Street, Poplar, E.

Transferred from Associate to Associate Member.

W. Jas. Holmes, 50, Hartington Street, Barrow-in-Furness.

Transferred from Associate Member to Member.

Maurice Norman Wyse, The North-Western Hotel, Karachi, India.

Notes.

LLOYD'S SCHOLARSHIP, 1915-16: —In view of present circumstances, and in accordance with a desire expressed by the Committee of Lloyd's Register, it has been decided to postpone the examination for the Lloyd's Scholarship this year. Those candidates who proposed entering now, will have their names retained for next examination, and the scholarship will simply be held over, so that there will be two scholarships vacant next year.

The Council of Armstrong College passed a resolution to the effect that in the case of students in their final year, who have passed their first and second examinations, an application may

NOTES.

be made to the Senate, so that if the professors and teachers concerned make special recommendation to this effect, they can be allowed to proceed to their degree without further examination.

This concession has been made to meet present circumstances. Many students, who have passed as "excellent" in their first and second examination, have been debarred from continuing their regular course on account of war service, and such cases will be carefully considered by the staff and recommendations made to the Senate in each case. One such case is that of Mr. Arch. Allan, who won the Lloyd's Scholarship in 1912 and attended the College for two sessions; he intended to take another session on his own account with a view to the B.Sc. degree, but laid his intention aside on patriotic grounds that he might serve against the enemy.

J. A.