

1905

## Nineteenth Annual Report of the Governors of the City of Dublin Technical Schools and Science and Art Schools for the Session 1904 -1905

City of Dublin Technical Schools

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CITY OF DUBLIN TECHNICAL SCHOOLS  
LOWER KEVIN STREET.

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REPORT  
OF  
THE GOVERNORS  
ON THE  
SESSION 1904-1905.

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DOLLARD, PRINTINGHOUSE, DUBLIN, LIMITED.

1906.

# TECHNICAL EDUCATION COMMITTEE

FOR THE

## County-Borough of Dublin,

WHO ACT AS

### GOVERNORS OF THE TECHNICAL SCHOOLS.

The Committee is constituted, by Resolution of the Municipal Council, May, 1897, amended February, 1903, of:—

“The Right Hon. the Lord Mayor (Ex-officio) and fifteen Members of the Dublin Corporation, elected annually; two Representatives of the Founders of the Technical Schools and of the Subscribers, elected annually; five Representatives of Educational and other bodies, elected annually; and three Representatives of the Trades, elected annually by the Dublin United Trades Council.”

CHAIRMAN ... .. Mr. JOHN MULLIGAN.  
(Representative of the Founders and Subscribers.)

DEPUTY-CHAIRMAN ... .. Mr. JOHN GOOD.  
(Representative of the Master Builders' Association.)

The Right Hon. JOSEPH HUTCHINSON, Lord Mayor.

ALDERMAN	COLE.	COUNCILLOR	DINNAGE.
„	CORRIGAN.	„	HARRINGTON, M.P.
„	HEALY, J.P.	„	M'KENNA.
„	HENNESSY.	„	PARKINSON.
„	KELLY.	„	PARTRIDGE.
COUNCILLOR	COX.	„	SHERLOCK.
„	P. T. DALY.	„	VANCE.

(Representatives of the Municipal Council.)

Mr. GEORGE LEAHY, Mr. ANDREW MOORE, Mr. HENRY ROCHFORD.  
(Representatives of the Dublin Trades.)

Mr. W. R. J. MOLLOY, J.P., M.R.I.A., Commissioner of National Education.  
(Representative of the Founders and Subscribers.)

Right Rev. Monsignor MOLLOY, D.D., D.Sc., Rector C.U.I.  
(Representative of the Catholic University of Ireland.)

Professor W. E. THRIFT, F.T.C.D.  
(Representative of the School of Engineering, T.C.D.)

Professor N. W. HARTLEY, F.R.S., Dean of Faculty, R.C.Sc.I.  
(Representative of the Royal College of Science, Ireland.)

Mr. EDWARD GIBSON  
(Representative of the Dublin Guild of Master Painters.)

LOUIS ELY O'CARROLL, B.A., B.L.,  
SECRETARY TO TECHNICAL EDUCATION COMMITTEE,  
PRINCIPAL OF THE CITY OF DUBLIN TECHNICAL SCHOOLS.

# City of Dublin Technical Schools.

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## REPORT OF THE GOVERNORS.

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SESSION 1904-1905.

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We have much pleasure in presenting the 19th Annual Report on the work of the City of Dublin Technical Schools.

During the Session which opened on the 26th day of September, 1904, the number of individual students enrolled was 2,382, this being an increase of 458 on the enrolment of the previous Session. The number of Class enrolments was 3,512, as compared with 2,596 in the preceding Session, making the great increase of 916, and thus a most severe strain was put upon the very limited resources of the Schools as regards the provision of rooms, equipment, and staff.

The number of subjects of instruction which formed the programme of the Schools was 51, and in these 93 Classes were held.

A very vigorous endeavour was made at the commencement of the Session to systematise the educational work of the Schools into accord with the true meaning of Technical Instruction. Students were advised that attendance at a single Class, more especially a Technological or Trade Class, was narrow and insufficient, and that they should also attend the Science and Art subjects bearing thereon. Courses of study were arranged on these lines suitable to students, and their various degrees of proficiency, junior or senior. Mathematics was indicated as a subject of special importance, and Classes in Practical Mathematics and Workshop



Arithmetic were inaugurated. Further, a Scheme of Money Prizes was adopted to reward those who attended regularly the various subjects of their course and who obtained First or Second places in the examination in the groups of subjects. We are glad to say that our efforts have met with success, and that this programme was very largely followed by students.

A noticeable feature of the Session was the large number of students engaged in our Electrical Engineering Department; The Lectures on Electricity and Magnetism were attended by 191 students, and the lectures and laboratories devoted to Electric Lighting and Power Transmission were attended by 133 students. The average of success was high in the examinations of the Board of Education and of the City and Guilds of London. In Mechanical Engineering subjects also there was an increased attendance, and an exceptionally high standard of success at the examinations. It would, indeed, seem that, if provided with sufficient accommodation and fuller equipment, the Mechanical and Electrical Engineering Departments would be most popular and most important features of Technical Instruction in the City. Unfortunately, the Schools have no laboratories for the teaching of Physics and of Mechanics, which is a serious drawback.

Although two large laboratories were devoted to pure Chemistry, the demand for places exceeded the available accommodation. We regret it is not possible to extend this Department in our present buildings, but we are mindful of the great importance of providing full opportunity for the study of pure Chemistry and of the application of that Science to industries.

There was a very large increase of the number of students in Art subjects, and there were good Classes in such Artistic Craft work as Enamelling on Metal, Wrought Iron, Wood Carving, &c. At the Industrial Exhibition held by the Royal Dublin Society in connection with the Horse Show, the First Prize for Wrought Iron Work was awarded to the Class in our Schools, and seven prizes were won by students of the Wood Carving Class.

In compliance with the desire of many members of the Hairdressing Trade, a Class was opened in that subject, and some sixty students were enrolled. At the close of the Session an interesting public competition was held, in which the students gave demonstrations of the skill they had acquired, and at which the chief employers of the City kindly acted as judges.

At various times during the Session the Schools were visited by Inspectors from the Department of Agriculture and Technical Instruction, and a favourable report on the work of the Classes has been received. Such faults as were indicated arose chiefly from the fact that many of the Classes were so large as to run the chance of being ineffective.

We beg to offer our thanks to the Annual Subscribers and Donors for their continued support of the Schools ; to the Master Builders' Association, the Dublin Guild of Master Painters, Messrs. Dockrell and Sons, Messrs. Kennan and Son, Mr. John Mulligan, Messrs. Manfield and Sons, Mr. E. J. Long, Messrs. Tallon, Messrs. Lenehan and Son, Mr. J. F. Keatinge, Mr. John Sibthorpe, Mr. William Martin, M. Prost, Messrs. William Russell and Son, Messrs. Jules and Co., Madame Drago, Mr. Austin Kane, Messrs. Hovenden and Co., for their kind gifts of Prizes for special subjects.

In our last year's Report we expressed the hope that, pending the erection of new buildings, we might be able to secure temporary premises for the extension of Technical Instruction. We are glad to say that at the opening of the present Session we succeeded in obtaining, on lease, the house No. 12 Rutland-square, and we have concentrated there most of the Commercial Classes, thus giving a chance of freer and fuller development to the more purely Technical Classes in Kevin-street.

We trust that much progress will be made during the 20th Session, which is now well on its way.

Signed,

JOHN MULLIGAN,

*Chairman.*

10th January, 1906.

## APPENDIX I.

SESSION 1904-1905:

RETURN SHOWING THE NUMBER OF PUPILS  
ATTENDING THE VARIOUS CLASSES:

## MATHEMATICS DEPARTMENT.

Mathematics	...	...	...	...	...	129
Workshop Arithmetic	...	...	...	...	...	285
						<u>414</u>

## MECHANICAL ENGINEERING DEPARTMENT.

Practical Geometry	...	...	...	...	...	69
Machine Drawing	...	...	...	...	...	48
Applied Mechanics	...	...	...	...	...	101
Steam	...	...	...	...	...	68
Workshop Instruction	...	...	...	...	...	100
						<u>386</u>

## ELECTRICAL ENGINEERING AND PHYSICS DEPARTMENT.

Electric Light and Power	...	...	...	..	133
Magnetism and Electricity	...	...	...	..	191
Sound, Light, and Heat	...	...	...	.	27
Physiography	...	...	...	...	48
					<u>399</u>



## BUILDING TRADES DEPARTMENT.

Building Construction	...	...	...	...	190
Builders' Quantities	...	...	...	...	32
Painters' Work	...	...	...	...	85
Plasterers' Work	...	...	...	...	16
Plumbing	...	...	...	...	48
Metal Plate Work	...	...	...	...	15
Manual Instruction	...	...	...	...	44
Carpentry and Joinery	...	...	...	...	37
					<u>467</u>

## CHEMISTRY DEPARTMENT.

Chemistry (all classes)	...	...	...	...	<u>223</u>
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## ART DEPARTMENT.

Freehand Drawing	...	...	...	...	163
Modelling	...	...	...	...	17
Geometrical Drawing	...	...	...	...	209
Woodcarving	...	...	...	...	16
Stonecarving	...	...	...	...	3
Art Iron Work, Enamelling	...	...	...	...	6
Enamelling on Metal	...	...	...	...	6
					<u>420</u>

## MISCELLANEOUS TRADES.

Bootmaking	...	...	...	...	18
Tailor's Cutting	...	...	...	...	26
Hair Dressing	...	...	...	...	60
Linotype Printing	...	...	...	...	22
					<u>126</u>



## DOMESTIC CLASSES.

Cooking	...	...	...	...	...	108
Dressmaking	...	...	...	...	...	91
						<u>199</u>

## COMMERCIAL SUBJECTS:

Irish	...	...	...	...	...	31
French	...	...	...	...	...	118
German	...	...	...	...	...	38
English and Arithmetic	...	...	...	...	...	282
Handwriting	...	...	...	...	...	109
Shorthand	...	...	...	...	...	135
Typewriting	...	...	...	...	...	80
Book-keeping	...	...	...	...	...	100
						<u>893</u>

## APPENDIX II.

## OCCUPATION OF STUDENTS.

## YOUNG MEN.

Persons engaged in Farming Occupations	...	...	7
Building Trades—including Workers in Wood, etc.	...	309	
Coach and Car Builders	...	9	
Engineers, Workers in Metal, Draughtsmen, etc.	...	236	
Architects, Surveyors, Civil Engineers, etc.	...	56	
Electrical Engineers, Scientific Instrument Makers, etc.	...	88	
Printing Trades—Compositors, Lithographers, etc.	...	27	
Textile Industries—Designers, Weavers, etc.	...	4	
Painters and Decorators	...	72	

Plumbers, Gasfitters, etc.	...	...	...	...	65
Trades involving applied Art—Jewellers, Furniture Makers, etc.	...	...	...	...	54
Chemists, Analysts, Druggists, etc.	...	...	...	...	89
Salesmen, Shopkeepers, Warehousemen, etc.	...	...	...	...	III
Clerks in Commercial Offices	...	...	...	...	257
Clerks in Banks, Civil Service, Law, Assurance, and Accountants' Offices	...	...	...	...	67
Teachers, Assistant Teachers, Pupil Teachers	...	...	...	...	45
Students (University, Law, Medical)	...	...	...	...	55
Occupations not included in the above Classes	...	...	...	...	17
Boys just left School or College	...	...	...	...	182
No occupation stated	...	...	...	...	126
<hr/>					
Total number of Young Men	...	...	...	...	1876
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#### YOUNG WOMEN.

Domestic Servants	...	...	...	...	29
Printing Trades	...	...	...	...	39
Dressmakers, Milliners, etc.	...	...	...	...	44
Factory Workers, not included above	...	...	...	...	9
Saleswomen, Shopkeepers, etc.	...	...	...	...	27
Clerks, Cashiers, Civil Servants, etc.	...	...	...	...	56
Teachers, Assistant Teachers, Pupil Teachers	...	...	...	...	32
Students (University, Medical)	...	...	...	...	11
Occupations not included in above Classes	...	...	...	...	21
Girls just left School or College	...	...	...	...	25
No occupation stated	...	...	...	...	213
<hr/>					
Total number of Young Women	...	...	...	...	506
<hr/>					
Total number of Students	...	...	...	...	2382
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## APPENDIX III:

## ATTENDANCE OF GOVERNORS DURING THE YEAR 1905

## NUMBER OF MEETINGS ... 27

The Right Hon. the Lord Mayor	...	...	5
Councillor Clarke (resigned September)	...	...	14
Alderman Cole	...	...	22
Alderman Corrigan	...	...	17
Councillor Cox	...	...	2
Councillor D. Daly	...	...	17
Councillor P. T. Daly	...	...	22
Mr. Michael Derham (resigned August)	...	...	3
Councillor Dinnage	...	...	19
Mr. Edward Gibson	...	...	8
Mr. John Good	...	...	21
Councillor Harrington, M.P.	...	...	7
Professor Hartley	...	...	1
Alderman Healy, J.P.	...	...	23
Alderman Hennessy (died November)	...	...	5
Alderman Kelly	...	...	20
Mr. George Leahy	...	...	25
Right Rev. Monsignor Molloy, D.D.	...	...	4
Mr. W. R. J. Molloy, J.P., M.R.I.A.	...	...	18
Mr. Andrew Moore (appointed September)	...	...	6
Mr. John Mulligan	...	...	21
Councillor M'Kenna	...	...	9
Councillor Parkinson	...	...	11
Councillor Partridge	...	...	17
Mr. Henry Rochford	...	...	21
Councillor Sherlock (appointed October)	...	...	3
Professor Thrift	...	...	5
Councillor Vance	...	...	3



## APPENDIX IV.

LIFE MEMBERS, ANNUAL SUBSCRIBERS, AND DONORS TO  
THE SCHOOLS FOR THE YEAR 1904-1905.

	Donations			Annual Subscriptions		
	£	s.	d.	£	s.	d.
Aberdeen, Earl of, The Right Hon., 1885 ...	25	0	0	—		
Allen, Henry J., J.P. ... ..	—			0	10	0
Arnott and Co., 1886 ... ..	25	0	0	—		
Baker, Wardell and Co., 1886 ... ..	25	0	0	—		
Booth, Brothers ... ..	—			1	0	0
Brown, Thomas and Co. ... ..	—			1	0	0
Barrington and Sons ... ..	—			1	0	0
Cadogan, Earl of, The Right Hon. ...	25	0	0	—		
Carnarvon, Earl of, The Right Hon., 1886	25	0	0	—		
Crewe, Earl of, The Right Hon., 1892 ...	25	0	0	—		
John Darcy and Co., Ltd. ... ..	50	0	0	—		
Dockrell and Sons ... ..	—			1	0	0
Do. for Prize in Plumbing ... ..	—			2	0	0
Dollard, Joseph ... ..	—			1	0	0
Dublin Distilleries, 1886 ... ..	30	0	0	—		
Dublin Guild of Master Painters, for Prizes in Painters' Class ... ..	—			4	0	0
Dudley, Earl of, The Right Hon., Lord Lieute- nant, 1902 ... ..	25	0	0	—		
Eason, Charles, and Son ... ..	—			1	0	0
Edmundson and Son ... ..	—			1	0	0
Guinness, A., Son, and Co. ... ..	—			10	0	0
Henshaw and Co., Ltd. ... ..	—			0	10	0
Hibernian Bank ... ..	—			2	2	0
Hogg, W. and Co., 1886 ... ..	25	0	0	—		
Hutton, John, and Sons ... ..	—			2	2	0
Jameson, John, and Son, Ltd. ... ..	100	0	0	5	0	0
Jameson, William, and Co., 1886 ... ..	100	0	0	—		
Kennan and Sons, for Prize in Machine Drawing ... ..	—			1	0	0

	Donations			Annual Subscriptions		
	£	s.	d.	£	s.	d.
Kennedy, Charles, 1888 ... ..	50	0	0	—		
Lenahan & Son ... ..	—			0	10	0
Londonderry, Earl of, The Right Hon., 1887	25	0	0	—		
Long, E. J. ... ..	—			0	10	0
M'Comas, S. W., and Son ... ..	—			0	5	0
Maguire and Son, 1887 ... ..	50	0	0	—		
Manfield and Sons, for Prize in Boot and Shoemaking ... ..	—			0	10	0
Mansfield and Sons ... ..	—			0	10	0
Master Builders' Association, for Prizes ...	—			8	8	0
Meath, Earl of, The Right Hon., 1888 ...	25	0	0	—		
Millar, Adam, and Co., 1886 ... ..	25	0	0	1	0	0
Molloy, W. R. J., M.R.I.A. ... ..	—			1	0	0
Mulligan, John ... ..	—			1	0	0
Nugent, Michael ... ..	—			1	0	0
Ogilvy, Alexander ... ..	—			1	0	0
Perry, George, 1886-89 ... ..	180	0	0	—		
Pim Bros., 1886 ... ..	50	0	0	—		
Power, John, and Son, 1886 ... ..	100	0	0	2	2	0
Poyntz, B., and Co. ... ..	—			1	0	0
Roe, George, and Co., 1886 ... ..	50	0	0	—		
Rooney, John C., 1892 ... ..	25	0	0	—		
Ross and Walpole ... ..	—			1	0	0
Royal Dublin Society, 1888-92 ... ..	50	0	0	—		
Scott, Wm., and Co. ... ..	—			1	0	0
Skinnners, Worshipful Company of, 1887 ...	25	0	0	—		
Tallon and Co. ... ..	—			0	10	0
Taylor, J. C. ... ..	—			2	0	0
The Right Hon. George Wyndham, M.P., Chief Secretary for Ireland ... ..	—			1	1	0
Zetland, Earl of, The Right Hon., 1890 ...	25	0	0	—		

Donors of £25 and upwards become Life Members, with power to vote annually. Any smaller donation of £1 and upwards confers voting powers only for the year in which it is paid.

It is particularly requested that any Annual Subscriber or Life Member whose name has been omitted from this List shall communicate at once with the Secretary.

## APPENDIX V.

## CASH ACCOUNT FROM 1ST AUGUST, 1904, TO 31ST JULY, 1905.

DR.				CR.							
				£	s.	d.	£	s.	d.		
Balance	...	...	...	1039	7	9	Salary of Principal and Clerks	...	807	8	4
Grants—							Salaries of Teachers	...	2388	14	6
Dublin Corporation	...	£3000	0 0				Fuel, Light and Cleaning	...	394	9	1
Equivalent	...	834	17 7				Materials	...	£24	11	10
S. and A. Attendance...	...	300	18 2				Caretaker, Cleaners, Attendants, etc.	...	311	2	9
				4135	15	9			335	14	7
Subscriptions	...	...	...	5	5	6	Rents, Insurance	...	182	10	0
School Fees	...	...	...	562	13	6	Repairs	...	18	16	1
Sales	...	...	...	61	3	5	Furniture	...	17	3	7
Rent of Rooms, etc.	...	...	...	96	11	0	Books, Class Materials, etc.	...	441	8	1
							Examination Expenses	...	94	14	0
							Prizes	...	91	6	11
							Printing, Advertising and Stationery	...	401	9	8
							Cash in Bank	...	£618	4	4
							Cash on Hands	...	108	17	9
									727	2	1
									£5900	16	11
									£5900	16	11