

1904

## **Eighteenth Annual Report of the Governors of the City of Dublin Technical Schools and Science and Art Schools for the Session 1903-1904**

City of Dublin Technical Schools

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CITY OF DUBLIN TECHNICAL SCHOOLS,  
LOWER KEVIN STREET.



EIGHTEENTH  
ANNUAL REPORT  
OF THE  
GOVERNORS.

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1904.

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DOLLARD, LIMITED, PRINTINGHOUSE DUBLIN.

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1904.

# 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.
”	DOWD.	”	HARRINGTON, M.P.
”	HENNESSY.	”	HEALY, J.P.
”	IRELAND, J.P.	”	KELLY.
”	WOODHAMS.	”	M'KENNA.
COUNCILLOR	CLARKE.	”	SMYTH, J.P.
”	CORRIGAN.	”	VANCE.
”	COX.		

(Representatives of Municipal Council.)

Mr. MICHAEL DERHAM, Mr. GEORGE LEAHY, Mr. ANDREW MOORE.  
(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 School of Engineering, T.C.D.)

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

Mr. EDWARD GIBSON  
(Representative of 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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## EIGHTEENTH ANNUAL REPORT

OF THE

## GOVERNORS.

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SESSION 1903-1904.

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In submitting our Annual Report on the work of the Schools we are pleased to say that the Eighteenth Session has been one of substantial progress and development.

The Session opened on the 28th September, and instruction was given in forty-three subjects, in which seventy-three distinct Classes were held.

The number of individual pupils enrolled was 1,924, as against 1,613 in the preceding year, an increase of 311, and the Class enrolments numbered 2,596. Owing to limited accommodation we were regretfully obliged to refuse admission to some hundreds of applicants.

The programme for the Session was so arranged that allied industrial subjects were grouped into Schools or Departments, and brought into close relation with Science and Art, which alone constitutes Technical training.

### **Building Trades.**

The Building Trades, with their 458 individual students, formed the chief of these groups. Instruction was given in Building Construction, Building Surveying, Plumbers' Work, Plasterers' Work, Carpentry and Joinery, Painters' Work, and also in such artistic branches as

# City of Dublin Technical Schools.

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Woodcarving, Art Iron Work, and Decorative Mural Painting. Some specimens of Class work were sent for exhibit at the opening of the School of Building Construction, Brixton. A new and interesting feature was the series of afternoon demonstrations by our teacher of Building Construction, who conducted the Classes to brickworks, cement works, foundries, quarries, buildings in course of erection, &c., thus vividly illustrating much which indoor lectures could but insufficiently explain and which no school equipment could exemplify.

**Mechanical  
Engineering.**

The Classes in Mechanical Engineering were largely attended, some 200 of the students being employees in Engineering firms. The subjects consisted of Workshop Instruction, with special courses for Pattern-makers, Fitters, Turners, Boilermakers, and Smiths, together with Lectures on Practical Geometry, Applied Mechanics, Steam, and a course in Machine Construction and Drafting. We had pleasure in appointing Mr. Ernest Joynt, a former pupil, to act as Demonstrator and Assistant Lecturer.

**Electrical  
Engineering.**

It is a special rule in our Electric Lighting and Power Transmission Department that no student may be admitted to the Laboratories unless possessed of an adequate knowledge of the underlying theory, and it is satisfactory to know that 120 students attended the Lectures in Electricity and Magnetism. The higher Lectures and Laboratories were attended by 76 students immediately engaged in Electrical Engineering work in the City and Suburbs.

**Commercial Subjects.**

Our Commercial Classes were filled to the utmost limits, and in Examinations under the Society of Arts there were 57 successes in such subjects as Book-keeping, Shorthand, French, and German.

**Domestic Classes.**

The Classes in Domestic subjects were attended by some hundreds of students, and the Cookery Class secured many successes in the Examinations of the City and Guilds of London.

**Art School.**

The most striking feature during the Session was the development of the Art School. Recognising Art to be a prime factor of Technical Education, and

believing that Craft work should be its natural expression in a Technical School, we sought the services of a Master who should have experience in the application of Art to Industry. Mr. W. L. Whelan, a distinguished Scholar of the Metropolitan School of Art, and a teacher of proved ability, was appointed to the post, instruction was arranged on a systematic basis, and special prominence was given to Design as being the essence of genuine Craft work. More than 200 pupils were enrolled in Art subjects, and cabinetmakers, silversmiths, engravers, decorators, plaster workers, carvers, and practically all the artistic trades and crafts of the City were represented among the students. Some examples of Class work in Woodcarving and in Wrought Iron which were entered for the Industrial Exhibition held by the Royal Dublin Society in connection with the Horse Show, attracted much notice, and all were awarded prizes.

**St. Louis Exhibition.**

At the request of the Department of Agriculture and Technical Instruction, specimens of students' work done during the early part of the Session were forwarded to the St. Louis Exhibition. These specimens included examples of Boot and Shoe manufacture, with charts for same; tinsmiths' work, wrought iron work; woodcarving; painters and decorators' work; designs, and their application to enamelling; machine designs; and architectural and floral designs.

**Inspection of Classes.**

The Schools were visited at various times by Inspectors from the Department of Agriculture and Technical Instruction, but no official report on the year's work has, as yet, been received. Mr. Golding, of the Cordwainers' Society, inspected the Class in Boot and Shoemaking on behalf of the City and Guilds of London Institute, and in his official report he expresses pleasure at the work of the pupils, the method of the Teacher, and the general arrangement of the Class.

**Signs of Progress.**

A grave drawback to our efforts for many a year has been the lack of elementary education in a considerable proportion of the pupils. We are pleased to find that this defect was not so marked during last Session, and that, notwithstanding the great increase of students, the number joining Preparatory Classes was less than in previous

years. One other matter gives us great hope :—the tendency of students not to be content with the training of a single Session, but to seek advancement by another Session's higher work.

**Obituary.** Towards the close of the Session we lost, by the death of Mr. C. H. Logan, an old and valued member of our Teaching Staff. For fifteen years he had given unfailing attention to his Classes in Mathematics, and had won our confidence and his pupils' esteem.

**General.** Appended to this Report are various Returns showing the number of pupils and their occupations, Attendances of the Governors of the Schools, List of Life Members and Subscribers, and a Statement of the Income and Expenditure of the Schools for the year ending 31st July, 1904.

We 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. Lenehan and Son, Mr. J. F. Keatinge, Mr. John Sibthorpe, and Mr. William Martin for their kind gifts of Prizes for special subjects and courses of study.

**New Session.** Our Annual Report comes in the opening months of a new Session, and thus a word on the present position of the Schools will not be amiss. By re-arrangement of Classrooms the accommodation has been slightly increased. Already the number of students is in advance of last year's total, and the number of Classentries exceeds 3,000. We do not look on numbers as the test of success, but rather as evidence of a desire for Technical Instruction which we must encourage, and a demand which we must supply, and we hope that, pending the erection of the proposed new buildings, some temporary provision may be made for this growing demand.

In conclusion we desire to record our appreciation of the earnest efforts and the valuable services of our Staff.

Signed,  
JOHN MULLIGAN,  
*Chairman.*

16th November, 1904.



## APPENDIX I.

SESSION 1903-1904.

RETURN SHOWING THE NUMBER OF PUPILS ATTENDING THE VARIOUS  
SCIENCE, ART, TECHNOLOGICAL, AND COMMERCIAL CLASSES.

SCIENCE AND ART		TECHNOLOGICAL		COMMERCIAL	
Practical Geometry ...	59	Electrical Engineering	43	Handwriting ...	46
Machine Construction	61	Mechanical		English ...	179
Building Construction	168	Engineering ...	98	Book-keeping ...	90
Mathematics ...	85	Woodcarving ...	10	Shorthand ...	114
Applied Mechanics ...	85	Carpentry ...	41	Typewriting ...	49
Sound, Light and Heat	16	Bootmaking ...	22	Commercial Arithmetic	74
Magnetism and		Metal Plate Work ...	10	French ...	85
Electricity	131	Plumbing ...	80	German ...	28
Chemistry ...	191	Building Surveying ...	55		
Steam ...	58	Tailors' Cutting ...	41		
Physiography ...	57	Decorative Painting ...	29		
Freehand Drawing ...	120	Painters' Work ...	81		
Modelling ...	16	Plasterers' Work ...	18		
Geometrical Drawing...	104	Manual Instruction ...	36		
		Linotype Printing ...	16		
		Cookery ...	113		
		Dressmaking ...	87		
	<u>1,151</u>		<u>780</u>		<u>665</u>

## APPENDIX II.

## SESSION 1903-1904.

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TOTAL OF CLASS ENTRIES ... 2,596

NUMBER OF INDIVIDUAL PUPILS 1,924

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## RETURN SHOWING OCCUPATIONS OF STUDENTS.

## YOUNG MEN.

Persons engaged in Farming Occupations	...	...	8
Building Trades, including Workers in Wood, etc.	...	...	232
Coach and Car Builders	...	...	5
Engineers, Workers in Metal, Draughtsmen, etc.	...	...	197
Architects, Surveyors, Civil Engineers, etc.	...	...	49
Electrical Engineers, Scientific Instrument Makers, etc.	...	...	76
Printing Trades—Compositors, Lithographers, etc.	...	...	20
Textile Industries—Designers, Weavers, etc.	...	...	7
Painters and Decorators	...	...	90
Plumbers, Gasfitters, etc.	...	...	87
Trades involving Applied Art—Jewellers, Furniture Makers, etc.	...	...	35
Chemists, Analysts, Druggists, etc.	...	...	77
Salesmen, Shopkeepers, Warehousemen, etc.	...	...	88
Clerks in Commercial Offices	...	...	222
Clerks in Banks, Civil Service, Law, Assurance, etc.	...	...	59
Teachers, Assistant Teachers, Pupil Teachers	...	...	36
Students (University, Law, Medical)	...	...	47
Occupations not included in the above Classes	...	...	122
Boys still in attendance at School or College	...	...	12
No occupation stated	...	...	101

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1570

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## YOUNG WOMEN.

Domestic Servants <sup>11</sup> ...	...	...	...	...	14
Dressmakers, Milliners, etc.	...	...	...	...	21
Textile Industries—Designers, Weavers, etc.	...	...	...	...	—
Factory Workers not included above	...	...	...	...	1
Saleswomen, Shopkeepers, etc.	...	...	...	...	24
Clerks, Cashiers, Civil Service, etc.	...	...	...	...	47
Teachers, Assistant Teachers, Pupil Teachers	...	...	...	...	35
Students (University, Medical)	...	...	...	...	7
Occupations not included in above Classes	...	...	...	...	14
Girls just left School	...	...	...	...	11
No occupation stated	...	...	...	...	180
					—
					354

## APPENDIX III.

ATTENDANCE OF GOVERNORS FROM NOVEMBER, 1903,  
TO NOVEMBER, 1904.

## NUMBER OF MEETINGS ... 29

Councillor Clarke	...	...	...	...	4
Alderman Cole	...	...	...	...	26
Councillor Corrigan	...	...	...	...	18
Councillor Cox	...	...	...	...	6
Mr. Michael Derham	...	...	...	...	16
Councillor Dinnage	...	...	...	...	18
Alderman Dowd	...	...	...	...	20
Mr. Edward Gibson	...	...	...	...	24
Mr. John Good	...	...	...	...	27
Councillor Harrington, M.P.	...	...	...	...	20
Professor Hartley	...	...	...	...	0
Councillor Healy, J.P.	...	...	...	...	27

Alderman Hennessy	...	...	...	6
Councillor Hutchinson, Lord Mayor	...	...	...	6
Alderman Ireland, J.P.	...	...	...	23
Councillor Kelly	...	...	...	26
Mr. George Leahy	...	...	...	27
Right Rev. Monsignor Molloy, D.D.	...	...	...	12
Mr. W. R. J. Molloy, J.P., M.R.I.A.	...	...	...	22
Mr. Andrew Moore	...	...	...	18
Mr. John Mulligan	...	...	...	26
Councillor M'Kenna	...	...	...	6
Councillor Smyth, J.P.	...	...	...	24
Professor Thrift	...	...	...	8
Councillor Vance	...	...	...	6
Alderman Woodhams	...	...	...	27

## APPENDIX IV.

LIFE MEMBERS, ANNUAL SUBSCRIBERS, AND DONORS TO  
THE SCHOOLS FOR THE YEAR 1903-1904.

	Donations			Annual Subscriptions		
	£	s.	d.	£	s.	d.
Aberdeen, Earl of, The Right Hon., 1885 ...	25	0	0	—		
Allen, Henry ... ..	—			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	—		
Darcy and Co., 1886 ... ..	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. ... ..	—			0	10	0
Hibernian Bank ... ..	—			2	2	0
Hogg, W. and Co., 1886 ... ..	25	0	0	—		
Hutton, John, and Son ... ..	—			2	2	0
Jameson, John, and Son ... ..	100	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	—		
Leuehan & 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 ... ..	—			1	0	0
Martin, W., Son and Co. ... ..	—			1	0	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
Martin, W., Esq. ... ..	—			1	0	0
Mulligan, John ... ..	—			2	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	—		
Smallbridge, Samuel, 1892 ... ..	25	0	0	—		
Taylor, A. ... ..	—			2	0	0
The Right Hon. George Wyndham, M.P., Chief Secretary for Ireland ... ..	—			1	1	0
Yeates, S. M. ... ..	—			2	0	0
Zetland, Earl of, The Right Hon., 1890 ...	25	0	0	—		

