# THE WORLD OF LEARNING 1964-65

FIFTEENTH EDITION



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JORED OF LEARNING

# FOREWORD

THE rapid growth of education throughout the world is once again reflected in a large increase in the number of pages in this, the fifteenth, edition of THE WORLD OF LEARNING.

New universities are being founded in developed and undeveloped countries alike and existing universities increase in size year by year. The great advance in technological education also contributes to the expansion of this volume.

Once again we have been greatly encouraged in our task by the willing co-operation of innumerable contributors, without whose help we should not have been able to present such a wealth of up-to-date information. We should like to extend to them our very sincere thanks.

December 1964.

		e a suble	object and the property of the second of the
A.A	Associate in Arts	A.R.C.O	Associate of the Royal College of
A.B	Bachelor of Arts	ARCS	Organists Associate of the Royal College of Science
A.C.A	Associate of the Institute of Chartered	A.R.C.S	Associate of the Royal College of Science Associate of the Royal Society of Painter
And	Accountants Academy	A.R.E.	Etchers
Acad A.C.C.S	Associate of the Corporation of Secretaries	A.R.I.B.A.	Associate of the Royal Institute of
A.C.I.I.	Associate of the Chartered Insurance		British Architects
21.0.1.1.	Institute	A.R.I.C	Associate of the Royal Institute of
A.C.I.S	Associate of the Chartered Institute of		Chemistry
	Secretaries.	A.R.I.C.S	Associate of the Royal Institution of
A.C.T	Australian Capital Territory		Chartered Surveyors
A.D.C	Aide-de-camp	Ariz	Arizona
Admin	Administrative, Administration	Ark	Arkansas
Agr. de D	Agrégé de Droit	A.R.S.A	Associate of the Royal Scottish Academy;
Agr. de M	Agrégé de Médecine	10 10 10 10 10	Associate of the Royal Society of Arts
Agr. de Sc	Agrégé de Science	A.R.W.S	Associate of the Royal Society of Painters
Agr. des L.	Agrégé des Lettres	ACCE	in Water Colours
A.I.A	Associate of Institute of Actuaries;	A.S.C.E	American Society of Civil Engineers American Society of Mechanical En-
	American Institute of Architects	A.S.M.E	gineers
A.I.A.L	Associate Member of the International Institute of Arts and Letters.	Asscn	Association
A.I.B	Associate of the Institute of Bankers		Associate
A.I.C.E	Associate of the Institution of Civil	Asst	Assistant
A.L.O.D	Engineers	Aug.	August
A.I.C.E.A	Associate of Industrial and Commercial	edserine peak the	regard and to respond the file of the
	Executive Accountants		
A.I.Ch.E	American Institute of Chemical Engineers	B.A	Bachelor of Arts
	Australian Imperial Forces	B.Agr	Bachelor of Agriculture
A.I.I.S	Associate of the Irish Institute of Secre-	B.A.(Ed.)	Bachelor of Arts (Education)
	taries	B.A.O	Bachelor of Obstetrics
A.I.L	Associate of the Institute of Linguists	B.Arch	Bachelor of Architecture
A.I.M.	Associate of the Institution of Metallurgists	B.A.S	Bachelor in Agricultural Science
A.I.Mech.E.	Associate of the Institution of Mechanical	B.A.Sc	Bachelor of Applied Science
ATREA	Engineers	B.B.A	Bachelor of Business Administration British Broadcasting Corporation
A.I.M.T.A	Associate of the Institute of Municipal Treasurers and Accountants	B.B.C	
A.Inst.C.E.	Associate of the Institution of Civil	B.Ch., B. Chir.	
11.11150.0.13.	Engineers	B.Chem.E.	Bachelor of Chemical Engineering
A.I.R.I	Associate of the Institution of the Rubber	B.C.L	Bachelor of Civil Law; Bachelor of Canon
	Industry		Law
A.K.C	Associate of King's College (London)	B.Comm	Bachelor of Commerce
A.L.A	Associate of the Library Association	B.C.S	Bachelor of Commercial Sciences
	Alabama	B.D	Bachelor of Divinity
A.L.S	Associate of the Linnæan Society	B.D.S	Bachelor of Dental Surgery
A.M		B.E	Bachelor of Engineering; Bachelor of Edu-
A.M.A		B.Ec	cation  Pachalar of Foonemies
A.M.I.C.E	Associate Member of the Institution of	DDI	Bachelor of Education
A M T Chem T	Civil Engineers	DEE	Bachelor of Electrical Engineering
A.M.I.Chem.F	E. Associate Member of the Institution of Chemical Engineers	B.E.E B.Eng	Bachelor of Engineering
A.M.I.E.E.	Associate Member of the Institution of	B.Eng.A	Bachelor of Agricultural Engineering
12,112,12,12,	Electrical Engineers	B.E.Sc	Bachelor of Engineering Science
A.M.I.Mech.E	. Associate Member of the Institution of	B.F.A	Bachelor of Fine Arts
	Mechanical Engineers	B.For	Bachelor of Forestry
A.M.I.Struct.	E. Associate Member of the Institution of	B.I.D	Bachelor of Industrial Design
	Structural Engineers	B.Lit(t)	Bachelor of Letters
A.P	Andhra Pradesh	B.LL	Bachelor of Laws
A.P.I	Associate of the Plastics Institute	B.L.S	Bachelor of Library Science
Apptd		B.M	Bachelor of Medicine
A.R.A	Associate of the Royal Academy	B.M.A	British Medical Association
A.R.A.M		B.M.E	Bachelor of Music
A.R.C.A	Associate of the Royal College of Art Associate of the Royal College of Music	B.Mus B.N	Bachelor of Music Bachelor of Nursing
A.R.C.M	Associate of the Royal Conege of Music	B.N	Daomotor of fraising.

	ABBREVIA	AIIONS	
B.Paed. (or		C.S.S.F	Confédération des Sociétés Scientifiques
Pd.)	Bachelor of Pedagogy		Française
B.P.E	Bachelor of Physical Education	C.St.J	Commander of (the Order of) St. John of
B.Phar	Baccalauréat en Pharmacie		Jerusalem
B.Phil	Bachelor of Philosophy	Cttee	Committee
Br	Branch	C.V.O	Commander of the (Royal) Victorian
Bro			Order
B.S	Bachelor of Science; Bachelor of Surgery		
B.S.A	Bachelor of Scientific Agriculture		D . (1.1.1)
	Bachelor of Science	D.Agr	Doctor of Agriculture
B.Sc.C.E	Bachelor of Science in Civil Engineering	D.Arch	Doctor of Architecture
B.S.C	Bachelor of Science in Commerce	D.B	Bachelor of Divinity Dame Commander of (the Order of) the
B.Sc.Com	Bachelor of Commercial Science	D.B.E	British Empire
B.Sc.(Econ.)	Bachelor of Science in the Faculty of	D.C	District of Columbia
DCa (Fee)	Economics  Pachelon of Science in the Faculty of	D.C.H	Diploma in Child Health
D.Sc.(Eng.)	Bachelor of Science in the Faculty of	D.C.L	Doctor of Civil Law
B.Sc.F	Engineering Bachelor of Science in Forestry	D.C.M.	Distinguished Conduct Medal
B.Sc.F B.S. in H.E.	Bachelor of Science in Home Economics	D.Cn.L	Doctor of Canon Law
B.Sc.(M.E.)	Bachelor of Science in Mechanical Engi-	D.C.S	Doctor of Commercial Sciences
D.50.(M.E.)	neering	D.C.T	Doctor of Christian Theology
B.Sc.Met	Bachelor of Science (Metallurgy)	D.D	Doctor of Divinity
B.Sc.Pharm.	Bachelor of Science in Pharmacy	D.D.C	Doctorat en droit canonique
B.S.D	Bachelor of Didactic Science; Bachelor of	D. de l'U	Docteur de l'Université
	Science in Dentistry	D.D.S	Doctor of Dental Surgery
Bt	Baronet	D Econ	Doctor of Economics
B.Theol	Bachelor of Theology	D.Ed	Doctor of Education
	SELECTION DESCRIPTION SERVICE A	Del	Delegate, delegation, Delaware
c	circa (approximately)	D. en D	Docteur en Droit
C.A	Chartered Accountant	D.Eng	Doctor of Engineering
Calif	California	Dept	Department
Cantab	Of Cambridge University	D. ès L	Docteur ès Lettres
C.B		D. ès Sc	Docteur ès Sciences
C.B.E	Commander of (the Order of) the British	D.F.A	Doctor of Fine Arts.
	Empire	D.F.C	Distinguished Flying Cross
C.E	Civil Engineer	D.H.L	Doctor of Hebrew Literature
C.G.I.A	City and Guilds Institute Award	D.Hy	Doctor of Hygiene
C.H		D.I.H	Diploma in Industrial Health
Chair		Dip. Bact	Diploma in Education
	Bachelor of Surgery	Dip. Ed	Diploma in Education Diploma in Engineering
Ch.M	Master of Surgery (Edinburgh Uni-	Dip. Ing Dip. Pub.	Dipioma in Engineering
CTAT	versity) Corresponding Member of the International	Admin	Diploma in Public Administration
C.I.A.L	Institute of Arts and Letters	Dir	Director
C.I.E	Committee of the Order of the Indian	D. Iur. Utr.	Doctor of both Civil and Canon Law
C.I.E	Empire	D.L	Doctor of Laws
Cie	C (C	D.Lett	Doctorat ès lettres
C.I.E.E.	0 1 1 7 11 11 - 171 - 1 171	D.Lit(t)	Doctor of Letters; Doctor of Literature
	Engineers	D.Litt.S	Doctor of Sacred Letters
C.M	Master in Surgery	D.L.S	Doctor of Library Science
C.M.G	C Ct Wishest	D.M	Doctor of Medicine (Oxford)
	and St. George	D.Math.Sc	Doctor of Mathematical Science
C.N.R.S	Centre National de la Recherche Scienti-	D.M.D	Doctor of Dental Medicine
	fique	D.Mus	Doctor of Music
Co	Company; County		Doctor of Ophthalmology
Colo	Colorado	D.Paed	Doctor of Paediatrics
Comm	Commission	D.Phil	Doctor of Philosophy
Commdr	Commander	D.P.H	Diploma in Public Health
Commr	Commissioner	D.P.M	Diploma in Psychological Medicine
Conf	Conference	D.P.H.N	Diploma in Public Health Nursing
Conn	Connecticut	Dr.h.c	Dr. honoris causa Doctor of Engineering
Corpn	Corporation	Dr. Ing	Doctor of Laws
Corresp	Correspondent, Corresponding	Dr. Jur Dr. Med	Doctor of Medicine
C.P.	Congregation of the Passion	Dr. Med. Dent.	
C.P.A	Certified Public Accountant Certificate of Public Health	Dr.Med.Vet.	Doctor of Veterinary Medicine
C.P.H	Commence of the Order of the Star	Dr. Oec	
C.S.I.	of India	Dr. Phar.	Doctor of Pharmacy
C.S.I.R	C " f Caintife and Industrial	Dr.rer.Hort.	Doctor of Horticulture
C.S.I.R	Research (re-named Commonwealth	Dr.rer.Nat	Doctor of Natural Science
	Scientific and Industrial Research	Dr.rer.Pol	Doctor of Political Science
	Organisation)	Dr. Theol	Doctor of Theology

		ABBREVI	ATIONS	
D.S.C.		Distinguished Service Cross	F.I.A.L	Fellow of the International Institute of
D.Sc.		Doctor of Science		Arts and Letters
D.Sc.A.		Doctor of Applied Science	F.I.B	Fellow of the Institute of Bankers
D.Sc.Agr.	::	Doctor of Science in Agriculture	F.I.C.E.A	Fellow of Industrial and Commercial
D.Sc.Pol.		Doctor of Political Sciences		Executive Accountants Fellow International College of Surgeons
D.S.I.R.		Department of Scientific and Industrial	F.I.C.S	Fellow of the Irish Institute of Secretaries
2.0.2.20		Research	F.I.I.S	Fellow of the Institute of Linguists
D.S.M.		Distinguished Service Medal	F.I.L	Fellow of the Institute of English
D.S.O.		Distinguished Service Order	F.I.M.	Fellow of the Institute of Fuel
D.S.T.		Doctor of Sacred Theology	F.Inst.F	Fellow of the Institute of Physics
D.S.W.		Doctor of Social Work	F.Inst.P F.Inst.Pet	Fellow of the Institute of Petroleum
D.Tech.		Doctor in Technology	F.I.R.E	Fellow of the Institution of Radio Engi-
D.Theol.		Doctor of Theology	F.1,10,15	neers
D.T.M.		Diploma in Tropical Medicine	F.I.R.I	Fellow of the Institution of the Rubber
D.U.P.		Docteur de l'Université de Paris Doctor of Veterinary Medicine	tions restrained	Industry
D.V.M.	••	Doctor of Veterinary Science	F J.I	Fellow of the Institute of Journalists
D.V.S.		Doctor of veterinary belease	F.K.C	Fellow of King's College (London)
		to is is becomed ingles   O.Y.D.N	Fla	Florida
			F L.A	Fellow of the Library Association
E.D.		Doctor of Engineering (U.S.A.)	F.L.S	Fellow of the Linnæan Society
Ed.B.		Bachelor of Education	F.M.A	Fellow of the Museums Association
Ed.D.		Doctor of Education	F.N.I	Fellow of the National Institute of Sciences
Edin.		Edinburgh	77.0	(India)  R. Harris of the Philosophical Society of
Edn.		Edition Education	F.Ph.S	Fellow of the Philosophical Society of
Ed.M.	••	Master of Education Doctor of Electrical Engineering	E Di C	England Fellow of the Physical Society
E.E.		Executive	F.Phys.S	Fellow of the Plastics Institute
Exec.	••	Executive	F.P.I F.R.A.C.P.	Fellow of the Royal Australasian College
		Addition assistant / Addition	F.R.A.C.I.	of Physicians
		THE REST OF THE PROPERTY OF THE PARTY OF THE	F.R.A.C.S	Fellow of the Royal Australasian College
f		founded Australian Academy of	1.10.11.0.0	of Surgeons
F.A.A.		Fellow of the Australian Academy of	F.R.Ae.S	Fellow of the Royal Aeronautical Society.
		Science Fellow of the American Association for	F.R.A.H.S	Fellow of the Royal Australian Historical
F.A.A.A.S	D	the Advancement of Science		Society
FACCA		Fellow of the Association of Certified and	F.R.A.I	Fellow of the Royal Anthropological
F.A.C.C.A		Corporate Accountants		Institute
F.A.C.D.		Fellow of the American College of Den-	F.R.A.I.A	Fellow of the Royal Australian Institute of
F.A.C.D.	•••	tistry		Architects
F.A.C.P.		Fellow of American College of Physicians	F.R.A.I.C	Fellow of the Architectural Institute of
F.A.C.S.		Fellow of the American College of	2211	Canada Fellow of the Royal Academy of Music
		Surgeons	F.R.A.M	Fellow of the Royal Astronomical Society:
F.A.I.		Fellow of the Chartered Auctioneers' and	F.R.A.S	Fellow of the Royal Asiatic Society
		Estate Agents' Institute	F.R.B.S	Fellow of the Royal Society of British
F.A.I.A.		Fellow of the American Institute of Archi-	F.R.D.S	Sculptors; Fellow of the Royal Botanic
600 to 100		tects		Society
F.A.O.		Food and Agriculture Organisation Fellow of Antiquarian Society Edinburgh	F.R.C.M	Fellow of the Royal College of Music
F.A.S.E.		Fellow of the British Academy	F.R.C.O	Fellow of the Royal College of Organists
F.B.A.		Fellow of the British Association of	F.R.C.O.G	Fellow of the Royal College of Obstetricians
F.B.A.A.		Accountants and Auditors		and Gynæcologists
F.C.A.		Fellow of the Institute of Chartered	F.R.C.P. (E.)	Fellow of the Royal College of Physicians
F.O.A.		Accountants		(Edinburgh)
F.C.C.S		Fellow of the Corporation of Secretaries	F.R.C.P.(I.)	Fellow of the Royal College of Physicians
FC.I.C.		Fellow of the Chemical Institute of Canada		(Ireland) Fellow of the Royal College of Surgeons
F.C.I.I.		Fellow Chartered Insurance Institute	F.R.C.S.(C.)	(Canada)
F.C.I.S.		Fellow of the Chartered Institute of Secre-	EDCC (E)	Fellow of the Royal College of Surgeons
		taries	F.R.C.S. (E.)	(Edinburgh)
F.C.S.		Fellow of the Chemical Society	F.R.C.V.S	- 1 C-11 of Votoringer
F.C.T.		Federal Capital Territory	1.10.0	Surgeons (London)
F.C.W.A.		Fellow of the Chartered Institute of Cost	F.R.Econ.S.	Fellow of the Royal Economic Society
	00	and Works Accountants Fellow of the Royal College of Surgeons in	F.R.F.P.S	
F.D.S.R.	C.S.	Dental Surgery		Surgeons
Trad		Dental Surgery Federation, Federal	F.R.G.S	Fellow of the Royal Geographical Society
Fed.		Fellow Educational Institute of Scotland	F.R.Hist.S.	Fellow of the Royal Historical Society
F.E.I.S. F.F.A.R.	CS	Fellow of the Faculty of Anæsthetics,	F.R.Hort.S.	Fellow of the Royal Horticultural Society
F.F.A.R.	J.J.	Royal College of Surgeons	F.R.I.B.A	Fellow of the Royal Institute of British
F.F.R.	alat.	Fellow of the Faculty of Radiologists	222	Architects Fellow of the Royal Institute of Chemistry
F.G.A.		Fellow of the Gemmological Association	F.R.I.C	
F.G.S.		Fellow of the Geological Society	F.R.I.C.S	
F.I.A.		Fellow of the Institute of Actuaries	1	tered Surveyors
			ci	

		ABBRE	VIATIONS		
F.R.Met.	Soc.		1 J.D.		Doctor of Jurisprudence
F.R.S.		Fellow of the Royal Society	I.P.		Justice of the Peace
F.R.S.A.		Fellow of the Royal Society of Arts	J.S.D.		T
F.R.San.		Fellow of the Royal Sanitary Institute	J.U.D.		
F.R.S.C.					Civil and Canon Law)
F.R.S.E. F.R.S.G.S	s	Fellow of the Royal Society of Edinburgh Fellow of the Royal Scottish Geographical Society	Ju.D.	••	Doctor of Law
F.R.S.H.			Kan.		Kansas
F.R.S.L.		Fellow of the Royal Society of Literature	K.B.E.		Knight Commander of (the Order of)
F.R.S.S.		Fellow of the Royal Statistical Society		•	the British Empire
F.R.S.S.A		Fellow of the Royal Society of South	K.C.B.		Knight Commander of (the Order of) the Bath
	И	Fellow of the Royal Society of Tropical Medicine and Hygiene	K.C.I.E.		Knight Commander of (the Order of) the Indian Empire
F.S.A. (Sco	ot.)	Fellow of the Society of Antiquaries	K.C.M.G.	••	Knight Commander of (the Order of) St. Michael and St. George
		Scotland)	K.C.S.I.		Knight Commander of the Star of India
F.S.A.L.A F.S.B.E.	١		K.C.V.O.		Knight Commander of the Royal Victorian Order
ECC		logy	K.G.		Knight of (the Order of) the Garter
F.S.S.		Fellow of the Royal Statistical Society	K.P.		Knight of (the Order of) St. Patrick
F.T.C.D. F.T.C.L.	•••	Fellow of Trinity College of Music, London.	K.St.J.		Knight of (the Order of) St. John of jerusalem
F.T.I.		Fellow of the Textile Institute	K.T.		Knight of (the Order of) the Thistle
F.Z.S.		Fellow of the Zoological Society	Kt.		Knight
		SERVICE TO FELLING THE PROPERTY FORM	Ky.		Kentucky
Ga		Consider			
G.B.E.		Georgia Knight (or Dame) Grand Cross of (the	La.		Louisiana
U.D.L.		Order of) the British Empire	L.C.C.	••	London County Council
G.C.B.		Knight Grand Cross of (the Order of)	L.C.L.		Licentiate of Canon Law
		the Bath	L.D.S.		Licentiate in Dental Surgery
G.C.I.E.		(Knight) Grand Commander of the Indian	L. ès L.		Licencié ès Lettres
		Empire Empire	L. ès Sc.		Licencié ès Sciences
G.C.M.G.		Knight Grand Cross of (the Order of) St.	L.H.D.		Doctor of Humane Letters
		Michael and St. George	L.I.M.		Licentiate of the Institution of Metallurgists
G.C.S.I.		Knight Grand Commander of the Star	Lic.Med.		Licentiate in Medicine
		of India	Litt.D.		Doctor of Letters
G.C.V.O.		Knight Grand Cross of the (Royal)	LL.B.		Bachelor of Laws
		Victorian Order	LL.D.		Doctor of Laws
Gen.		General	L.Lett.		Licentiate of Letters
Gov.		Governor	LL.L.		Licentiate of Laws
Govt.		Government	LL.M.		Master of Laws
		hospitalis ett do minim of the subject	L.M.		Licentiate of Medicine; or Midwifery
h.c.		honoris causa	L.M.S. L.M.S.S.A.		Licentiate in Medicine and Surgery
H.E.		His Eminence; His Excellency	L.M.S.S.A.		Licentiate in Medicine and Surgery of the
H.M.		His (or Her) Majesty	L.Mus.		Society of Apothecaries
Hon.		Honourable; Honorary	L.N.	••	Licentiate in Music.
			L.Ph.		League of Nations Licentiate of Philosophy
			L.R.C.P.		Licentiate of the Royal College of Phy-
Ia		Iowa		10	sicians
I.C.E.		Institute of Civil Engineers	L.R.C.S.		Licentiate of the Royal College of Surgeons
I C.S.		Indian Civil Service	L.S.		Library Science
Ida		Idaho	L.S.A.		Licentiate of Science in Agriculture
III		Illinois	L.S.T.		Licentiate in Sacred Theology
I.L.O.		International Labour Organisation	L.Th.		Licentiate or Master of Theology
Inc.		Incorporated			Theology
Ind.		Indiana; Independent	MA		
Inst. C.E.	••	Institute; Institution	M.A.		Master of Arts
Inst.E.E.	• • •	Institution of Civil Engineers	M.Agr.	••	Master of Agriculture (U.S.A.)
Inst.Mech.	E.	Institution of Electrical Engineers	Man. M.A.O.	• •	Manager, Managing; Manitoba
Int.		Institution of Mechanical Engineers International	M.A.ch.		Master of Obstetrics
I.S.O.		(Companion of the) Imperial Service Order	NA A C-	• • •	Master in Architecture Master of Applied Science
	100	(	Mass.		Massachusetts
		NEW PROPERTY AND ADDRESS OF THE PARTY OF THE	M.B.		Bachelor of Medicine
J.C.B.		Juris Canonici Bachelor (Bachelor of	MDA		Master of Business Administration
		Canon Law)	M.B.E.		Member of (the Order of) the British Empire
J.C.D.		Juris Canonici Doctor (Doctor of Canon	M.C.		Military Cross
TOT		Law)	MCE		Master of Civil Engineering
J.C.L.	• •	Juris Canonici Lector	M.Ch.		Master of Surgery
		·	ii		0.7

M.C.L. Master of Civil Law M.Commercial Master of Civil Law M.C.S. Master of Commercial Science M.C.S. Master of Commercial Science M.D.S. Master of Commercial Science M.D.S. Master of Dental Surgery M.E. Master of Engineering, Military Engineer M.E. Master of Engineering, Military Engineer, Mining Engineer M.E. Maine M.E. Master of Engineering, Military Engineer, Mining Engineers M.E.L. Member of the Engineering Institute of Canada Mems. Member of the Engineering (Dublin) M.F. Master of Forestry M.H.A. Member of Engineering (Dublin) M.F. Master of Forestry M.H.A. Member of the House of Representatives M.C.E. Member of the House of Representatives M.C.E. Member of the House of Representatives M.C.E. Member of the Institution of Electrical Engineers M.I.C.E. Member of the Institution of Electrical Engineers M.I.Loco.E. Member of the Institution of Mechanical Engineers M.I.M.L. Member of the Institution of Mechanical Engineers M.I.M.L. Member of the Institution of Mechanical Engineers M.I.M.L. Member of the Institution of Structural Min. Member of the Institution of Mechanical Engineers M.I.L. Member of the Institution of Structural Min. Member of the Institution of Structural Min. Member of the Institution of Mechanical Engineers M.I.Loco.E. Member of the Institution of Structural Min. Member of the Institution of Mechanical Engineers M.I.L. Member of the Institution of Mechanical Engineers M.I.L. Member of the Institution of Structural Min. Member of the Legislative Assembly M.L. A. Member of the Legislative Council Mil. Member of Music Master of Music Master of Justineers of Coperation Member of Music Master of Music Master of Justineers of Coperation Music Master of Music Music Master of Music Mus	M.Ch.D	Master of Dental Surgery	M.R.S.A.E.	Member of Royal Society of Agricultural
M.C.L. Master of Commercia M.C.S. Master of Commercia M.C.S. Master of Commercia M.D. Doctor of Medicine M.D. Doctor of Medicine M.D. Doctor of Medicine M.D. Master of Engineering, Military Engineer, Mining Engineer M.D. Master of Engineering, Military Engineer, Mining Engineer M.E. Mechanical Engineering Military Engineer, Mining Engineer M.E. Master of Engineering Military Engineering M.E.L. Member of the Engineering Institute of Canada Mems. Member Member of the Engineering (Publin) M.F.A. Master of Fine Aris Mir. Member of the House of Resembly M.H.R. Member of the House of Resembly M.H.R. Member of the Institution of Chemical Engineers Mich. Misham M.L.E. Member of the Institution of Engineers of Mil.E.A. Member of the Institution of Engineers of Mil.E.A. Member of the Institution of Engineers M.L.D. Member of the Institution of Engineers M.L.D. Member of the Institution of Mining and M.L.M. Master of Jeliative Council M.S. Master of Public Health M.S. Member of the Open Apothecaries M.L.S. Master of Jeliative Council M.S. M. Master of Public Public Medical M.S. Member of the Royal Society of Apothecaries M.R.C. Member of the Royal Society of Master of Mining and M.P. Member of the Royal College of Public Health M.S. Member of the Royal Society of Master of Mysic Canada M.R.C. Member of the Royal Society of Master of Public Pleating M.R.C. Member of the Royal Society of Master of Public Pleating M.R.C. Member of the Royal Society of Master of Public Pleating M.R.C. Member of the Royal Society of Mas		Master of Chemical Engineering		Engineers
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Surgeons M.R.I. Member of the Royal Institution M.R.I.A. Member of the Royal Irish Academy M.R.S.A. Member of the Royal Society of Arts  Novelists (Club)  Ph.B. Bachelor of Philosophy Ph.D. Doctor of Philosophy Ph.G. Graduate in Pharmacy	MRCVS	Member of the Royal College of Veterinary	P.E.N	Poets, Playwrights, Essayists, Editors and
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M.R.I.A Member of the Royal Irish Academy M.R.S.A Member of the Royal Society of Arts  Ph.D Doctor of Philosophy Ph.G Graduate in Pharmacy	MPT	Member of the Royal Institution	Ph.B	
M.R.S.A Member of the Royal Society of Arts Ph.G Graduate in Pharmacy		Member of the Royal Irish Academy		
Mailtouria		Member of the Royal Society of Arts	DI C	
	M.R.S.A			

	ABBREV	TATIONS	
Ph.L	Licentiate of Philosophy	Sc.D	Doctor of Science
Ph.M	Master of Philosophy	SC.D	Doctor of Commercial Science
P.Q	Province of Quebec	S.Dak	South Dakota
200 4	President of the Royal Academy	C	Secretary
D	President of the Royal Academy	S.I.S.T.E.R.	
		3.1.3.1.E.R.	Special Institution for Scientific and Tech-
P.R.I	President of the Royal Institute (of	CI	nological Education and Research
DDIDA	Painters in Water Colours)	S.J	Society of Jesus
P.R.I.B.A	President of the Royal Institute of	S.J.D	Doctor of Juristic Science
7. 7	British Architects	S.M	Master of Science
Priv.Doz	Recognised teacher not on the regular staff	S.T.B	Bachelor of Sacred Theology
Prof	Professor	S.T.D	Doctor of Sacred Theology
P.R.S		S.Th.L	Sacrae Theologiae Lector (Reader or Pro-
P.R.S.A	President of the Royal Scottish Academy		fessor of Sacred Theology)
Publs	Publications	S.T.M	Master of Sacred Theology
		Supt	Superintendent
Q.C	Queen's Counsel	(4)	
Q.H.P	Honorary Physician to the Queen	T.D	Territorial Decoration; Tealta Dáil (Mem-
Que	Quebec		ber of the Dail), Teaching Diploma
~		Tenn	Tennessee
		Tex	Texas
R.A	Royal Academy; Royal Academician	Th.B	Database of The steer
R.A.C.P	Royal Australasian College of Physicians	Th.D	D
R.A.C.S	D 14 / 1 ' 0 !! / 0	Th.M.	Markey of Theology
R.A.F	5 111 5	T.U.C.	Trades Union Congress
	** * * * * * * * * * * * * * * * * * * *	1.0.0.	Trades Offich Congress
R.A.M R.A.S			
	Royal (Society of) British Artists	U.K	United Kingdom
201		77 57	United Nations
R.C.A		TT NT A	United Nations Association
R.D.I	Member of the Royal Canadian Academy	TINTEGGO	United Nations Association United Nations Educational, Scientific and
•		UNESCO	
Rep	Representative; Represented	TIMETORE	Cultural Organisation
resgnd	resigned	UNICEF	United Nations International Children's
retd		** .	Emergency Fund
Rev	Reverend	Univ	University
R.G.S	Royal Geographical Society	U.N.R.W.A.	United Nations Relief Works Agency
R.Hist.S		U.P	
R.I	Rhode Island;	U.S.A	United States of America
	Royal Institute (of Painters in Water	U.S.S.R	Union of Soviet Socialist Republics
	Colours)		
	Royal Institution	Server recoverable to	
R.I.B.A	Royal Institute of British Architects	Va	Virginia
R.I.C.S	Royal Institution of Chartered Surveyors	V.C	Victoria Cross
R.M.P.A	Royal Medico-Psychological Association	V.D	Volunteer Officers Decoration, Victorian
R.N	Royal Navy		Decoration
R.O.I	Royal Institute of Oil Painters	Vols	Volumes
R.P	35 ' D 10 ' L CD L "D L	V.R.D	Royal Naval Volunteer Reserve Officers
R.S.A	Royal Scottish Academy		Decoration
200000	Royal Society of Arts	Vt	Vermont
R.S.C	Royal Society of Canada		
DCIII	David Ca thick Caristan of Daintons in		
R.S.W	Water Colours	W.A	Western Australia
D+ U			
Rt. Hon	Right Honourable	Wash	Washington (State) Workers' Educational Association
Rt. Rev		W.E.A	
R.W.S	Royal Society of Painters in Water Colours	Wis	Wisconsin
		W Va	West Virginia
		Wyo	Wyoming
S.C	South Carolina; Senior Counsel (Republic		
	of Ireland)		
SCAP	Supreme Command Allied Powers	Y.M.C.A	Young Men's Christian Association
Sc.B	Bachelor of Science	Y.W.C.A	Young Women's Christian Association
	THE RESIDENCE OF THE PARTY OF T		

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NIGERIA	849	TUNISIA	1054
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PAKISTAN	864	UGANDA	1055
PANAMA	871	UNION OF SOVIET SOCIALIST REPUBLICS	
PARAGUAY	873	UNION OF THE STATES OF CENTRAL	1000
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# INTERNATIONAL

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# UNESCO

UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANISATION

# AIMS AND FUNCTIONS

(Article 1 of Unesco Constitution)

The purpose of the Organisation is to contribute to peace and security by promoting collaboration among the nations through education, science, and culture in order to further universal respect for justice, for the rule of law, and for the human rights and fundamental freedoms which are affirmed for the peoples of the world, without distinction of race, sex, language, or religion, by the Charter of the United Nations.

To achieve Unesco's purpose, the General Conference adopts at its biennial sessions a basic programme which stresses the main ideas underlying the aims of the Organisation and gives coherence to the detailed work plans. While the latter naturally vary from year to year, the basic programme covers the policies and main lines of work, with little change except of emphasis on this or that sector. Thus from 1965 onwards the scientific sectors (both stimulation of research and application of science to development) are to receive a priority second only to that accorded to educational activities in 1962.

The chief tasks of Unesco, as defined in its basic programme, are as follows:

- To eliminate illiteracy and encourage universal free and compulsory education;
- 2. to obtain for each person an education conforming to his aptitudes and to the needs of society, including technological training and higher education;
- 3. to promote, through education, respect for Human Rights throughout all nations;

- 4. to overcome the obstacles to the free flow of persons, ideas, and knowledge between the countries of the world:
- 5. to promote the progress and utilisation of science for the benefit of all mankind:
- 6. to focus the social sciences on the study of particular social questions for the benefit both of the general public and of governments;
- 7. to assure the preservation of the world's inheritance of books, works of art and monuments of history and science, to make this cultural heritage known and available to all, and to promote mutual appreciation of differing cultural values;
- 8. to advance through the media of mass communication the causes of truth, freedom, and peace;
- 9. to bring about better understanding among the peoples of the world and to convince them of the necessity of co-operating loyally with one another in the framework of the United Nations;
- 10. to provide clearing-house and exchange services in all its fields of action, together with technical aid to nations and peoples in emergencies.

1

## MEMBER STATES

(November 1st, 1964)

Afghanistan Albania Algeria Argentina Australia · Austria Belgium Bolivia Brazil Bulgaria Burma Burundi Byelorussia Cambodia Cameroun Canada Central African Republic Ceylon Chad Chile China, Republic of (Taiwan) Colombia Congo (Léopoldville) Congo (Brazzaville) Costa Rica Cuba Cyprus Czechoslovakia Dahomey Denmark Dominican Republic

Ecuador El Salvador Ethiopia Finland France Gabon German Federal Republic Ghana Greece Guatemala Guinea Haiti Honduras Hungary Iceland India Indonesia Iran Iraq Ireland Israel Italy Ivory Coast Jamaica Japan Jordan Kenva Korea, Republic of Kuwait

Libya Luxembourg Madagascar Malawi Malaysia Mali Mauritania Mexico Monaco Mongolian People's Republic Morocco Nepal Netherlands New Zealand Nicaragua Niger Nigeria Norway Pakistan Panama Paraguay Peru Philippines Poland Rumania Rwanda Saudi Arabia Senegal Sierra Leone

Somalia Spain Sudan Sweden Switzerland Svria Tanganyika Thailand Togo Trinidad and Tobago Tunisia Turkey Uganda Ukraine U.S.S.R. United Arab Republic United Kingdom United States of America Upper Volta Uruguay Venezuela Viet-Nam, Republic of Yugoslavia Zambia **Associate Members** British East Carribean Group Mauritius Oatar

# REGULAR PROGRAMME

# 1. DEVELOPMENT OF INTERNATIONAL CO-OPERATION

Laos

Lebanon

Unesco aims to maintain, increase and diffuse knowledge and to encourage co-operation among the nations in all branches of intellectual activity. The League of Nations set up its International Committee on Intellectual Co-operation for the same purpose, and Unesco took over this heritage in an attempt to restore contacts broken by the Second World War. It was realised that an effective and economical method would be, first, to support existing specialist organisations, and second to encourage individual scientists, scholars, writers and artists.

The natural sciences was the first sphere in which Unesco was able to co-operate with an already firmly established body of scientific associations. Unesco's success in this field prompted action where contacts at international level were less advanced. To achieve this a number of institutions were created: the International Council for Philosophy and Humanistic Studies, the International Theatre Institute, the International Music Council, the International Association of Plastic Arts. Unesco also decided to support the work of the International PEN and the International Union of Architects. The International Council of Archives was founded on the initiative of Unesco. Financial aid is given to the International Council of Museums, the International Federation of Library Associations and the International Federation of Documentation.

In the field of social sciences, Unesco promoted the establishment of international bodies in such major

disciplines as sociology, political science, legal science and economics. Subventions have been granted to a few carefully-selected associations, including the International Economic Association, the International Statistical Institute, the International Sociological Association. The International Social Science Council and the International Committee for Social Sciences Documentation were also helped.

In the field of education, financial assistance has been given to the World Confederation of Organisations of the Teaching Profession, the International Association for Teachers' Federation, the International Association for Vocational Guidance, the World Organisation for Early Childhood Education, the New Education Fellowship, etc. A major step was the creation in 1950, with UNESCO's help, of the International Association of Universities. Subventions have also been granted to the International Bureau of Education for its documentation services.

In the field of mass communication, Unesco has found that associations have more varied activities and less well defined programmes. It has founded the International Centre of Films for Children, the International Association for Mass Communication Research, the International Film and Television Council.

Unesco also organises seminars, international discussions and conferences, for example the International Conference of Artists held in 1952, the Conference on Radio-isotopes in Scientific Research held in 1957, the International Conference on Information Processing in June 1959, and the Intergovernmental Conference on Oceanographic Research in July, 1960.

## 2. IMPROVING DOCUMENTATION

These activities include the collection, analysis and diffusion of information and statistics, and the encouraging of other organisations to do similar work. Since 1948 this has been increasingly achieved through the Education Clearing House.

Unesco has also built up a documentation and information service on opportunities and facilities for study abroad. The annual publications Study Abroad and Vacations Abroad bring such facts to a wide public.

The Clearing House in Mass Communications collects information on mass media techniques and the technical needs of mass media institutions.

In the field of culture Unesco has produced the *Index Translationum* and archives of colour reproductions of paintings. In the Social Sciences bibliographies have been produced in four major fields, sociology, political science, economics and social and cultural anthropology. Multilingual dictionaries and biographies are being prepared and attempts have been made to standardise techniques and terminologies. A study has also been made of scientific and technical dictionaries and a bibliography of monolingual glossaries has been produced.

Unesco also promotes the creation of scientific and technical documentation centres in order to meet the essential need of scientists and technicians for information on the work of their colleagues elsewhere.

Altogether, 36 national centres for the international exchange of publications are linked with Unesco. One of the chief aims of the International Centre for the study of the Preservation and Restoration of Cultural Property, newly set up in Rome, is to collect, analyse and distribute information concerning scientific and technical problems arising in the fields of preservation and restoration. Similarly the Documentation and Study Centre for the History of Art and Civilisation in Ancient Egypt is now in full operation.

#### 3. SCHOOL EDUCATION

The Unesco programme for school education may be divided into five main parts, Free and Compulsory Education; the School Curriculum and Improvement of Education; Education for International Understanding and Co-operation; Vocational and Technical Education; and Higher Education. An essential concomitant to all these is the need for a programme of educational planning.

Forty-five per cent of the world's population of fifteen years old and over cannot read or write; forty-five per cent of the world's children of school age do not attend school. Of those who do attend school, many are poorly educated because of inadequate facilities, undertrained teachers and an outmoded curriculum. It is, in addition, realised that the need for humanistic studies and for education for international understanding has never been so great. Recent developments in science and industry have also created new problems in higher education or have accentuated old ones.

Free and Compulsory Education. For more than ten years Unesco has conducted a campaign to extend free and compulsory education to all children of primary school age. A series of international and regional conferences was organised; direct assistance was offered to Member States in the form of experts and of fellowships for national educators. The first major effort for training teachers was launched in 1957 as Unesco's Major Project for the Extension of Primary Education in Latin America. The Project concentrates upon teacher training and educational planning, and is now in full operation.

Three major enquiries into the educational needs of tropical Africa, the Arab-speaking States, and South and South-East Asia, were completed, as a result of which the General Conference, in December, 1962, deciding to continue giving priority to educational programmes, re-adopted programmes for the development of education in these areas, totalling \$8.8 million for 1963-64, in addition to a \$4 million emergency programme for Africa financed out of voluntary contributions, and to Special Fund activities (see below).

The School Curriculum and the Improvement of Education. In 1954, a programme for the Improvement of the School Curriculum was initiated by the creation of an international advisory committee, by the holding of regional seminars, by providing the services of experts, by disseminating information on mechanisms of curriculum revision, curriculum research, etc., by initiating an inquiry into the adaption of the school curriculum to the age and development levels of children. In 1960 Unesco completed an inquiry into the role and place of the humanities in school education. Two outside bodies are closely associated with UNESCO in this field: the International Bureau of Education at Geneva, and the Institute of Education at Hamburg. Education for International Understanding and Co-operation. Unesco seeks to stimulate interest in educations

ation. Unesco seeks to stimulate interest in educational activities by facilitating international exchanges of ideas among educational leaders and teachers, in aiding in the development of better methods and materials and in encouraging action within schools on many aspects of education for international understanding.

Vocational and Technical Education. Activity in this field has led mainly to the provision of services of experts, fellowships and equipment. Regional conferences and training courses on Vocational and Technical Education have recently been organised.

By an agreement reached in 1960 between UNESCO and the International Labour Office, two new international instruments have been completed, the UNESCO one dealing with technical education in school and the ILO one with vocational training after or out of school.

**Higher Education.** Work in this sphere is carried out mainly through the International Association of Universities, created in 1950. A scheme of collaboration on a large scale started in 1960 with some of the American Foundations on the subject of access to universities.

Educational Planning. As a background to all education, it has been increasingly realised that educational planning is unquestionably a necessity in the world today, not only because of the tremendous economic, technical and intellectual effort involved in all educational work, but for a more fundamental reason—because of the speed with which it is developing and its growing complexity. The General Conference authorised Unesco to furnish Member States with three forms of assistance in this field. Firstly, the Organisation advises governments on planning methods and procedures. Secondly, Unesco sends missions and experts to countries requesting them, to advise governments on appropriate machinery for their planning services and the preparation and implementation of their overall development plans. Since 1960, planning missions have been sent to some 30 countries and technical assistance in the form of expert services has been provided for about 50 countries. These activities will probably be increased in the future. Thirdly, Unesco assists in training national planning staff. To supervise this field of assistance, Unesco, with help from the World Bank and the Ford Foundation established an International Institute for Educational Planning in Paris, which started work in early 1964 with the basic aim of helping nations accelerate their economic and social progress through improved educational planning.

## 4. EDUCATION OUTSIDE SCHOOL

The work in this group of activities is divided into three sections: fundamental education, education of adults, and the development of youth activities.

Fundamental Education (Community Development). The main effort is directed towards those people who have not had the opportunity to go to school. Fundamental education aims at imparting the minimum knowledge and skills that people need to help themselves to improve their standard of living and to take a productive part in the social and economic life of their community. The basic need is to combat ignorance, which extends over half the world's population and is instrumental in breeding disease, poverty and lethargy.

Two regional fundamental education centres have been set up: one for Latin American States at Patzcuaro, Mexico, established in 1951, the other for Arab States at Sirs-el-Layyan, Egypt, established in 1955. Unesco has helped in setting up national expert training centres in a number of countries and also co-operates in many fundamental and adult education projects undertaken by Member States in Asia, Africa, Latin America and the Arab

States.

Adult Education. The aim is to foster education, not only at school but throughout life. Unesco assists Member States and appropriate international organisations in the development of adult education activities by: co-operating to set up national and regional seminars; sending field missions to make surveys and advise on projects; publishing reports on projects and activities.

During 1964, Unesco sponsored two regional conferences on the planning and organisation of literacy programmes in Africa and in the Arab States, where the vital importance was stressed of all forms of out-of-school education in a rapidly changing world. During 1964, also, plans for an experimental programme in mass literacy, which would prepare the way for a World Campaign for Universal Literacy, were recommended by a committee of experts on literacy set up to advise Unesco's Director General, who had been charged by the UN General Assembly to explore the possibility of such a world campaign. Among recommendations was one that three-year pilot projects in six to eight selected countries should be undertaken by Unesco as part of the first of three consecutive phases in a long-term programme to achieve universal literacy.

Youth Work. The work is concentrated on assisting Member States and appropriate international organisations and institutions in the development of youth education for social responsibility and international understanding and co-operation. The Section supplies information and brings groups interested in the same problems into contact with each other. It also sponsors international voluntary work camps and an annual conference of work camp organisers. Another important interest is the Unesco Youth Institute at Gauting, Germany. The Institute is an international meeting place where conferences are organised to study youth activities. During 1964, Unesco organised an international youth conference at Grenoble, France, attended by delegates from 73 Member States and the first inter-governmental conference ever held on youth problems.

## 5. AID TO SCIENTIFIC RESEARCH IN THE NATURAL SCIENCES AND THEIR APPLICATION TO DEVELOPMENT

These activities cover the following fields: basic sciences, earth sciences (astronomy and general geophysics, hydrology, oceanography, physics of the earth's crust, geological sciences, soil sciences, ecological studies and

conservation of natural resources); life sciences (brain research, cell and molecular biology, microbiology, participation in basic research on cancer).

The exchange of ideas and results is encouraged by congresses and documentation, and the award of grants for study tours and missions. More concrete action was provided in the specific subjects mentioned above. Three main methods have been devised to produce the desired results. The first is to establish for each subject a new intergovernmental body, whether regional or inter-national, which conducts its scientific work on its own initiative. The European Organisation for Nuclear Research and the International Computation Centre are examples of bodies of this kind. The second is to set up, within Unesco itself, an administrative co-ordinating body which possesses certain financial resources and acts on the scientific advice of a group of experts selected for that purpose: an example is provided by the new Inter-Governmental Oceanographic Commission set up in 1961, with a permanent staff within the Secretariat to service it. The third is to provide assistance for the establishment and operation of a non-governmental body responsible for achieving the co-operation desired, e.g. the International Brain Research Organisation set up in 1960.

Advisory Committees of experts of world-wide repute have been set up to administer the Arid Zone, the Marine Sciences and Humid Tropics Research Projects. Among the recent or new initiatives undertaken by Unesco, or those to which the Organisation provides its active support include the International Years of the Quiet Sun, the World Magnetic Survey (a continuing project of the International Geophysical Year), the International Hydrological Decade, as well as the International Indian Ocean Expedition, the International Co-operative Investigations of the Tropical Atlantic, and the Co-operative Study of the Kuroshio. Furthermore, in the field of seismology, Unesco has set up a system of emergency missions to send experts to the affected areas immediately after earthquakes have occurred.

General advice has also been given by short-term missions on the establishment of national scientific research

The most important activity has been the creation in loto of institutions and services previously almost non-existent. It has been possible in this way to strengthen geophysical and seismological observatories, and geological and hydro-geological services.

The application of science and technology according to the needs of developing countries will henceforth take a large place among the scientific activities of Unesco: technical and economic evaluation of these needs and direct aid which could be provided to Member States are the basic features of this programme.

#### 6. APPLIED SOCIAL SCIENCES

The Social Science programme makes a clear distinction between the promotion of pure research and learning in the field of the social sciences and the use of the social sciences for solving social problems. The promotion of original research has also taken place into the attitudes of the people of one country towards people of other countries and into the roots of tension in local communities within different societies. On the other hand, a broad study of principal research trends throughout the world in the social and human sciences is in progress under Unesco's direction.

An inter-disciplinary programme has been constituted on the three great problems of our time: respect for human rights and the struggle against racial prejudice, the economic and social problems of newly-independent countries, the economic and social consequences of disarmament.

The analysis of the role of education, science, technology and information in economic development, pursued methodically, will continue to furnish the data necessary for the operational activities of Unesco and other international organisations, as well as the programme of statistical analysis and human resources assessment.

# 7. PRESERVATION OF THE CULTURAL HERITAGE OF MANKIND

Activity in this section is directed to the conservation and protection of the world's inheritance of books, works of art and monuments of history and science. Encouragement is also given to the exchange of publications, objects of artistic and scientific interest and other materials of information. A World Campaign for Monuments was launched by Unesco in 1964.

The protection of cultural property, historic monuments and of museum objects, archives, libraries, etc. during war is sought through the International Convention for the Protection of Cultural Property in the Event of Armed Conflict, signed at The Hague in 1954. Fifty-two Member States are parties to this Convention.

An International Centre for the Study of the Preservation and Restoration of Cultural Property has been established in Rome. A manual on the protection of cultural property has been published which deals with techniques for preservation and conservation. Since 1955, missions have advised on the preservation of culture in Peru, Yugoslavia, the Lebanon, Syria, Iraq, Israel, Egypt, Jordan, Iran, Pakistan, Afghanistan, Ecuador and the Sudan. International Seminars on Arts and Education have also been held since 1950 and two International Societies have been launched—one for Education through Art and the other for Music Education.

The International Campaign to save the Monuments of Egyptian and Sudanese Nubia launched in February, 1960, by Unesco, achieved almost total success in demonstrating the world's cultural solidarity. At the present time, the archaeological survey in the areas that will be inundated after the construction of the new Aswan dam is largely completed, while the dismantling of the threatened temples and monuments is being completed. The operation for safeguarding the temples of Abu-Simbel has begun.

# 8. MUTUAL APPRECIATION OF CULTURAL VALUES

The aim is to encourage a better mutual knowledge of the cultures of different peoples. In this way it is hoped to lay the foundations of real international understanding necessary for maximum peaceful co-operation among peoples.

The ninth session of Unesco's General Conference (New Delhi, 1956) established a ten-year major project aimed at developing the "Mutual Appreciation of Eastern and Western Cultural Values". The scheme aims to break down the barriers to the flow of information and ideas between the orient and occident. It has stimulated a very large number of cultural activities of an exchange nature throughout the world.

Unesco appointed a Commission in 1951 to prepare the publication of a history of the scientific and cultural development of mankind. The first two volumes, dealing with pre- and proto-history, were published in London in May 1963. A quarterly Journal of World History is published by the Commission.

The department sponsors international circulation of masterpieces of the visual arts and of music. Exhibitions of reproductions representing the great periods of both Western and Eastern art are circulating in Member States.

The Unesco World Art Series albums, devoted to works of art not sufficiently known outside their countries of origin, are published in five languages. Catalogues listing high quality reproductions of paintings of all periods have been published for the guidance of students, teachers and the general public.

Under the auspices of the International Music Council a collection has been made of recordings of traditional and contemporary music of all continents.

Great works representative of the genius of different people are translated and published. Translations of works from twenty-six different literatures have so far been made, chiefly into English and French.

## 9. FREE FLOW OF INFORMATION

Among the principal methods used are: sponsorship of international agreements; proposals to reduce telecommunication, postal, transport and tariff obstacles to the flow of information; administration of coupon schemes designed to overcome currency barriers; action to improve the techniques and expand the means of communication; the publication of reports and studies focusing public attention on obstacles to the free flow of information.

The underlying reason for Unesco's action in this field is that the dearth of communication facilities in large areas of the world, a maze of non-political restrictions and the high cost of sending information from country to country constitute formidable obstacles to the creation of an enlightened public opinion. In short, it appears that nearly 70 per cent of the world's peoples lack the means of being adequately informed of developments at home, let alone in other countries. "Adequate" facilities, according to a Unesco minimum standard accepted by the UN, consist of at least ten copies of a daily newspaper, five radio receivers and two cinema seats for every 100 persons. More than 100 countries and territories are below this minimum. Thus, for millions of people freedom of information, guaranteed by the universal Declaration of Human Rights, is far from being a reality.

Here are some of the results achieved:

- I. Two international Agreements have been sponsored by Unesco: the Agreement on the Importation of Educational, Scientific and Cultural Materials and the Agreement for Facilitating the International Circulation of Visual and Auditory Materials of an Educational, Scientific and Cultural Character.
- 2. Proposals have been submitted to international conferences in the telecommunication, postal, transport and trade fields. Substantial concessions have been made in the rates and facilities offered.
- 3. Studies have been published such as World Communications, Books for All, Trade Barriers to Knowledge, Transmitting World News and Mass Media and National Development, which have spurred national efforts to reduce obstacles to the flow of information.
- 4. Member States have taken steps to facilitate the movement of persons engaged in educational, scientific and cultural activities.
- 5. Unesco's Coupon Schemes have helped to remove currency conversion obstacles, enabling individuals or organisations to purchase foreign books, films and other information materials and to pay for educational travel abroad.

In addition, Unesco has studied the means of ensuring that technological advances in communication should be applied to promote the free flow of information on the basis of a study of the use of space communication. To advance Unesco's aims, a world conference on comunications in 1963 urged that new telecommunication techniques should be employed in a way which will ensure their most effective use for communication between peoples.

Unesco has also provided limited direct aid and planned and conducted a series of seminars and experimental activities designed to improve the professional competence of those working in the mass media. Under the UN Expanded Programme for Technical Assistance, Unesco has for several years sent out aid missions to help in the setting up, improvement and expansion of local news agencies, newspapers, as well as radio, film and TV services. In 1964, a mission assisted Uganda in the creation of a national film unit; another helped launch a pilot project in Senegal for the integrated use of audio visual aids in adult education; aid was continued to the Latin American Institute for educational films, and similar missions were at work in Pakistan, Libya and other countries.

A long-term programme has been drawn up on the basis of regional meetings for Africa, the Arab States, Asia and Latin America to develop the press, radio, films and television in the developing countries. This programme was endorsed by the General Assembly of the UN as a part of the UN Development Decade. Unesco has also organised meetings of television and radio producers and regional training courses in broadcasting techniques. The first meeting on the introduction and development of television in Africa was held in 1964. The purpose of this meeting was to examine the organisational and financial problems of TV in African countries; indicate the potential contribution of the medium to the social, educational and cultural development of African countries; and pave the way for the systematic development of TV based on the needs and conditions of the countries of Africa. Unesco has also sought to promote the establishment of regional centres for the training of teachers of journalism. The first such centre began operating in 1951 at Strasbourg University, and a second centre was opened in Ecuador in 1960. Others are planned for Asia and Africa.

Tariff, postal and transport revenues waived each year as a result of action taken by Unesco are already at least equal in amount to the Organisation's total annual budget. Member States have also simplified administrative procedures affecting the international circulation of educational materials. Some \$30,000,000 has been made available by Unesco's Coupon Schemes for the importation of books, films and scientific equipment.

# 10. "STUDY ABROAD"—THE INTERNATIONAL TRAINING OF SPECIALISTS

The programme has been carried out through three main lines of activity:

- A programme of documentation to reveal the extent and nature of activities of governments and other agencies in the field.
- 2. A programme to improve the planning and administration of international training programmes.

3. A programme of training specialists in Unesco fields of interest, through awards of fellowships for study abroad, and the organisation of special courses and other measures.

Statistical documentation on foreign students in institutions of higher learning provided by Unesco has given governments and other agencies more complete information than has ever before been available on the scale of international training and study opportunities. New approaches to the appraisal of needs for international training have been developed. Work has also advanced on developing an evaluative approach to the actual administration of programmes, so that planners and administrators may develop certain simple techniques by which to judge the effectiveness of their planning and administration, and the ultimate results of their work. Since 1948 some 8,000 fellowships have been awarded in various fields for periods of study abroad. These fellowships have enabled persons, who are already specialists in their field, to obtain additional general or technical training abroad for periods of four to nine months-longer in exceptional cases. Fellowships have played an important role in training local "counterparts" to take over responsibilities from experts sent abroad for limited periods.

In some countries field experts have organised training centres and courses as a means of passing on their specialsed knowledge to nationals of the countries concerned.

Continuing efforts are made by Unesco to keep in touch with former fellows and there is much evidence to show that many former fellows are making valuable contributions, through the introduction of new techniques and knowledge, to the projects for which they have been trained.

Since 1948 Unesco has published a yearly handbook Study Abroad which currently lists over 170,000 individual opportunities for subsidised travel and study in other countries. In addition, from 1964 Unesco began publication of the Unesco Handbook of International Exchanges with information on national and international agencies operating exchange programmes in the fields of education, science and culture.

# 11. HUMAN RIGHTS

The universal rights (United Nations Declaration of Human Rights, 1948) of all individuals to education, an enjoyment of the arts and to a share in scientific advancement and its benefits, come directly within Unesco's competence. In addition to efforts already outlined, Unesco has, in this field, secured the Universal Copyright Convention (signed by 40 States, Geneva, 1952), and at the present time 55 States are parties to this instrument which came into force on September 16th, 1955. A series of reports has been prepared on the subject of education for women, and studies have been made of the role of educated women in Africa and Asia. The General Conference, at its eleventh session (Paris, 1960), adopted a Convention and Recommendation against discrimination in education, which came into force on May 22nd, 1962. France and Israel deposited instruments of ratification in 1961, and 13 other countries, including the United Kingdom and U.S.S.R., did so in 1962, bringing the total number of states party to it to 15.