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c|o

London International Youth Science Fortnight

1974

London International Youth Science Fortnight

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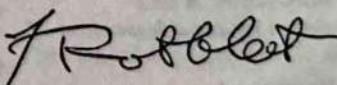
George McGowan



In this restless age, science and technology cause the most rapid changes in our lives. Scientific advances open up great possibilities, alas, not all of them bringing improvement and happiness to the world. Pessimists see in these advances the threat of a world made desolate and exhausted by the thoughtless squandering of resources and the use of technology for development of means of mass destruction. Optimists place before us a prospect of health, comfort and pleasure for all in an exciting new world. Somewhere between the limits of pessimism and optimism there exists a middle way, of sober evaluation of the world's present problems and steady progress towards greater security and higher standards of life for all.

This progress depends on everybody, but more especially on scientists, because of their great impact on the fate of society and because they are at the forefront of advancement. This gives us great power, but if we are to use our powers for good we must also help to remove the barriers of fear, propaganda and distrust that divide the world's peoples. We must develop a new loyalty, extending to the whole of mankind the feeling of belonging and responsibility that we have towards our own family, our own town or country.

We can make a start on developing our international loyalty through meetings like the Youth Science Fortnight, where young scientists from many countries get to know each other, and discuss together common interests and responsibilities. This is one of the aims of the Science Fortnight, which I recommend to you. I look forward to meeting you, and hearing your views on some of the many topics included in the Science Fortnight programme. I hope you will have a pleasant and profitable time in London, and will feel that the chances it gives of world friendship will help you to play your part in contributing to that happy future that we all desire.

A handwritten signature in black ink, appearing to read "J. Rotblat".

J. Rotblat
President, London International Youth Science Fortnight

The aim of the Science Fortnight is to give a deeper insight into science and its applications for the benefit of mankind, and to develop a greater understanding between young people of all nations. The Fortnight is part of the programme of the Council for International Contact.

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Association for Science Education

Colonel Maurice J. Buckmaster, O.B.E.,
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R. H. A. Carter, M.B.E.
Council for International Contact

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O.B.E., B.Sc., C.Eng., M.I.E.E.,
M.B.I.M., F.R.S.A., F.R.Ae.S.

Central Bureau for Educational Visits and Exchanges

*Member of the working group that plans the details of the Science Fortnight programme.



As Chairman of the Council for International Contact, I welcome you to the Science Fortnight in London.

I am not a scientist, and cannot therefore write to you in scientific terms, but I am nevertheless certain that the meeting for which you have come to London will prove to be an important landmark in your education and, indeed, in your life.

The opportunities that it will bring you are complex and far reaching: not only will you have an opportunity of listening to eminent men and women and of seeing for yourself much interesting research and many important applications of science, but also you will have a personal opportunity of expressing your views and your thoughts on the future development and applications of science. To live in an international community and to learn to tolerate and respect views based on differing philosophies from your own is an opportunity which I envy.

I am sure you will find it is a stimulating experience and it is certainly my wish that you will participate totally in your Science Fortnight.

A handwritten signature in black ink, appearing to read "Eric E. Potter".

Eric E. Potter
Chairman
The Council for International Contact

International Praesidium of Honour

Membership of the Praesidium is open to the Heads of Diplomatic Missions of countries represented at the Science Fortnight

Their Excellencies

The Ambassador of the Arab Republic of Egypt
The High Commissioner for Australia
The Austrian Ambassador
The Belgian Ambassador
The Bulgarian Ambassador
The High Commissioner for Canada
The Danish Ambassador
The French Ambassador
The Ambassador of the Federal Republic of Germany
The Greek Ambassador
The Hungarian Ambassador
The High Commissioner for India
The Irish Ambassador
The Israeli Ambassador
The Italian Ambassador
The Japanese Ambassador
The Korean Ambassador
The Luxembourg Ambassador
The High Commissioner for Malawi
The High Commissioner for Malaysia
The Netherlands Ambassador
The Norwegian Ambassador
The Ambassador for Pakistan
The Philippine Ambassador
The Portuguese Ambassador
The Romanian Ambassador
The South African Ambassador
The Swedish Ambassador
The Swiss Ambassador
The Turkish Ambassador
The Ambassador of the United States of America
The Ambassador of the Union of Soviet Socialist Republics
The Venezuelan Ambassador
The Yugoslav Ambassador

together with

The Rt. Hon. the Secretary of State for Foreign and Commonwealth Affairs
The Rt. Hon. the Secretary of State for Education and Science
The Rt. Hon. the Secretary of State for the Environment

The Council for International Contact

President A. McTaggart-Short

Chairman Eric E. Potter

Vice Chairman Roger Chapman

Executive Comptroller Eric N. Matthews

Director George McGowan



International contact on a personal scale is the basis of the Council's work. In a world where life is complex and misunderstandings between nations are common, there is a place for the interchange of people and ideas through travel and direct experience of other countries.

Interchange visits are arranged for groups of young students who stay as guests with families while following language courses. Vacation home-to-home visits are arranged, together with specialist study courses for doctors, social workers, teachers, apprentices and other workers.

Projects of multi-national co-operation, including the experience of communal living on an international scale, provide more opportunities for new friendships and understanding. These projects include the annual London International Youth Science Fortnight and the Harrogate International Youth Bands Festival, as well as less formal meetings such as the People to People International Youth Camp in Essex.

The Council encourages contacts between advanced and underdeveloped countries through sport, study and travel, and has assisted with projects for disabled and disadvantaged people.

The Council is in regular correspondence with many national and multi-national official bodies, as well as with private organisations and individuals. In 1973 over 12,000 people from 31 different countries took part in international events organised by the Council for International Contact.

United Kingdom Sponsoring Authorities

ENGLAND

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Cumberland Education Committee
Derbyshire Education Committee
Dorset Education Committee
Hampshire Education Committee
Hertfordshire Education Committee
States of Jersey Education Committee
Lincolnshire Education Committee
Manchester Education Committee
Nottinghamshire Education Committee
Oxfordshire Education Committee
Staffordshire Education Committee
West Suffolk Education Committee

NORTHERN IRELAND

The Ministry of Education in association with the Education Committees of the province.

SCOTLAND

Aberdeen Education Committee
Ayrshire Education Authority
Berwickshire Education Committee
Dundee Education Authority
Edinburgh Education Committee
Glasgow Education Committee (Schools)
Glasgow Education Committee (Further Education)
Kirkcudbright Education Authority
Lanarkshire Education Committee
Renfrewshire Education Committee
Roxburghshire Education Committee
Stirlingshire Education Committee
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Breconshire Education Committee
Glamorgan Education Committee
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Newport Education Committee
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Jersey College for Girls
King Henry VIII School, Abergavenny
Price's School, Fareham
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St. Julian's School, Newport, Mon.
Turriff Academy

OTHER SPONSORS

The Bridge in Britain
British Association of Young Scientists
Helston and District Chamber of Commerce
Rotary Club of Gower and Llchwyr



Shortly after the energy crisis was accentuated by the sharp increase in the cost of crude oil, a writer to the *Times* newspaper in London remarked that things would never be quite the same again. The simple act of the oil-producing nations of increasing the cost of crude oil triggered off a rapid re-appraisal of the economic and industrial pattern of life in the developed world.

Such collective action is generally considered aggressive rather than constructive. But there are signs that our present re-appraisal could be beneficial in giving us a more balanced view of the problems of fuels and raw materials. So a healthy shock was administered by the action of the oil-producing nations. This underlines the power of such groups, in contrast with the efforts of well-intentioned organisations such as United Nations, and raises the serious question: Who controls the destinies of nations? Who controls the development of the third world, or decides what contribution to that development should be made by the developed nations? It seems that splendid blueprints for a successful future must depend for their acceptance and application on the approval of the world's political and economic leaders.

Scientists and economists are fundamental workers for progress in the world. They must apply their knowledge and research to the teasing problems of the present and the future. They must also be aware of the need for international co-operation and wise control of resources and plans. If the world's political leadership has failed to demonstrate on the highest level its awareness of the needs of coming generations, then there exists a responsibility for the scientist by his efforts to ensure that research and knowledge result in wise action, so that the aspirations of the planners can be achieved.

A handwritten signature in black ink, appearing to read "George McGowan".

George McGowan
Director, London International Youth Science Fortnight

DAILY PROGRAMME

Wednesday 31st July			Arrivals Orientation in Halls of Residence
Thursday 1 August	11 00	*Opening Ceremony	
	14 15	*Lecture: <i>Luminescence</i>	
	20 00	Welcome Dance at the Empire Rooms	
Friday 2 August	10 00	Seminars I	
	14 15	Seminars II	
	20 00	Tour of London by coach	
Saturday 3 August	10 00	*Lecture: <i>Organ Transplantation: Past, Present and Future</i>	
	20 00	Scientific Films in Commonwealth Hall	
		Optional theatre visits	
Sunday 4 August		Optional excursions to Stonehenge and Salisbury or Windsor and Oxford	
	20 00	Students' Topics in Halls of Residence	
	20 00	Film Night at Commonwealth Hall	
Monday 5 August	10 00	*Forum: <i>Resources</i>	
	14 15	*Forum: <i>Resources</i> continued	
	20 00	Topics for Tonight in Halls of Residence	
Tuesday 6 August	20 00	Full-day visits to research and industrial establishments	
		*Lecture: <i>Noise and Man</i>	
Wednesday 7 August	10 00	Groups 1 and 2: University Lectures	
		Groups 3 and 4: Visit to Shell Centre	
	14 00	Groups 1 and 2: Visit to Shell Centre	
		Groups 3 and 4: University Lectures	
	20 00	Students' Topics in Halls of Residence	
Thursday 8 August	10 00	Visits to London's Science Museums	
	14 15	*Lecture Participants' Debate	
	20 00	Seminars III in Halls of Residence	

Friday 9 August	a.m.	Half-day visits to industrial and research departments
	20 00	International Folk Evening at the Empire Rooms
Saturday 10 August	10 00	*Lecture: <i>Crime and Chemistry</i>
	20 00	Scientific Films in Commonwealth Hall
		Optional theatre visits
Sunday 11 August		Optional excursions to Stratford-on-Avon or to Cambridge and Ely
	20 00	Topics for Tonight in Halls of Residence
	20 00	Film Night at Commonwealth Hall
Monday 12 August	10 00	*Forum: <i>International Co-operation through Science</i>
	14 15	*Forum: <i>International Co-operation through Science</i> continued
	20 00	Feedback: a discussion of the Science Fortnight with the comments of the staff and participants
Tuesday 13 August	10 00	*Participants' Forum
	14 15	*Closing Address
	20 00	Farewell Ball at the Empire Rooms

Wednesday
14 August

Departures

*These events take place at the Institution of Electrical
Engineers, Savoy Place, London, W.C.2.

Events timed after 18 00 are voluntary.

Speakers at the Institution of Electrical Engineers

Thursday 1 August	11 00	Opening Ceremony
	14 15	Lecture: <i>Luminescence</i> Dr. T. F. Palmer, Ph.D., Senior Lecturer, Department of Chemistry, University of Nottingham.
Saturday 3 August	10 00	Lecture: <i>Organ Transplantation: Past, Present and Future</i> Professor R. R. Shackman, M.B., B.S., F.R.C.S., Professor of Urology, Royal Postgraduate Medical School, London.
Monday 5 August	10 00	Forum: <i>Resources</i> Chairman: Dr. J. A. Pope, D.Sc., C.Eng., Vice-Chancellor, the University of Aston.
	14 15	Introductory talks will be given by university and industrial speakers on aspects of man's use of world resources and raw materials, including topics such as energy, food, minerals, water, and the general preservation of the environment. Questions and discussion will follow.
Tuesday 6 August	20 00	Lecture: <i>Noise and Man</i> Perry M. Nealis, Wisconsin Regional Primate Research Centre, U.S.A.
Thursday 8 August	14 15	<i>Participants' Debate</i>
Saturday 10 August	10 00	Lecture: <i>Crime and Chemistry</i> Dr. Roger R. Berret, B.Sc., Ph.D., Principal Scientific Officer, Metropolitan Police Forensic Science Laboratory.
Monday 12 August	10 00	Forum: <i>International Co-operation through Science</i> Chairman: Professor J. Rotblat, C.B.E., D.Sc., President of the London International Youth Science Fortnight.
	14 15	A team of international scientists who support the Pugwash Movement will introduce topics related to the subject. They will include Sir Rudolf Peierls, Philip Noel-Baker, Professor Bernard T. Feld, and others.

University Lectures

On Wednesday 7 August, in the University departments.

Wednesday 7 August	10 00	Lecture: <i>Measuring Molecules</i> (Group 1) Professor D. J. Millen, Ph.D., D.Sc., Department of Chemistry, University College, London.
	10 00	Lecture: <i>Applications of Mathematics and Computing to Problems in Science and Engineering</i> (Group 2) Professor P. A. Samet, B.Sc., Ph.D., Computer Centre, University College, London.
	14 15	Lecture: <i>Forces between Atoms, Molecules and Electrons</i> (Group 3) Professor J. B. Hasted, M.A., D.Phil., Department of Physics, Birkbeck College.
	14 15	Lecture: <i>Cell Fusion and Medicine</i> (Group 4) R. F. I. Withers, M.Sc., A.K.C., Senior Lecturer, Biology as Applied to Medicine, Middlesex Hospital Medical School.

Seminars

Participants are selected to join seminars in accordance with their expressed scientific interests. A summary of each seminar subject and details of meeting place are supplied individually.

Friday 2 August	10 00	Seminars I
Friday 2 August	14 00	Seminars II
Thursday 8 August	20 00	Seminars III
Seminar A		<i>What is Mathematics?</i> Introduced by Professor John Crank, M.Sc., D.Sc., F.Inst.P., F.I.M.A.
Seminar B		<i>The Radio Wave; is it still a mystery?</i> Introduced by H. G. Effemey, C.Eng., M.I.E.E.
Seminar C		<i>Radioactivity and Environmental Research and Development.</i> Introduced by R. M. Longstaff.
Seminar D		<i>Information Communication.</i> Introduced by Dr. R. Mitchell, M.Sc., Ph.D.
Seminar E		<i>Environment and Balance.</i> Introduced by A. D. P. Pride, B.Sc.(Econ.)
Seminar F		<i>The Green Revolution.</i> Introduced by D. P. Richardson, M.Sc.
Seminar G		<i>Problems in Brain Research.</i> Introduced by Dr. G. E. Savage, B.Sc., Ph.D.
Seminar H		<i>The Scientist's Role: an economist's view.</i> Introduced by Dr. R. Smith, B.Sc.(Econ.), Ph.D.

Topics for Tonight

These informal discussions take place in the Halls of Residence; participants attend any group that interests them. The speaker introduces the topic, which is then discussed.

Monday 5 August	20 00	In College Hall <i>The Community and Change</i> . Introduced by *Christopher Power, B.Sc.(Soc.)
	20 00	In College Hall <i>Live and Let Die</i> . Introduced by *Dr. Frances Calman, M.B., B.S., D.C.H.
	20 00	In Commonwealth Hall <i>Management: the Myth and the Reality</i> . Introduced by Michael Forrer, M.A.(Hons. Theology).
	20 00	In Passfield Hall <i>Drugs and Society</i> . Introduced by *Michael Parnham, B.Sc. (Hons. Pharmacology).
Sunday 11 August	20 00	In College Hall <i>The Imperfect Scientist</i> . Introduced by *Alastair J. Kennaugh, B.Sc.
	20 00	In College Hall <i>Feeding the World: a responsibility of the technologically developed nations</i> . Introduced by Larry L. Allaman, B.A.
	20 00	In Passfield Hall <i>People, Pay and Power</i> . Introduced by Rev. Canon Frank Scuffham, A.K.C.
	20 00	In Passfield Hall <i>Sex Education</i> . Introduced by Dr. Christopher Calman, B.M., D.P.H. *A leader, former leader, member of staff or past participant of the Science Fortnight.

Social Programme

Thursday 1 August	20 00 to 23 30	Welcome Dance at the Empire Rooms
Friday 9 August	20 00 to 23 30	International Folk evening at the Empire Rooms
Tuesday 13 August	20 00 to 23 30	Farewell Ball at the Empire Rooms

Theatre tickets will be available for selected shows and for Promenade Concerts for both Saturday evenings.

Details of optional coach excursions on Sundays will be circulated separately during the Science Fortnight.

Science Fortnight Films

Scientific Films	Scientific Films
Saturday 3 August	Saturday 10 August
20 00	20 00
Commonwealth Hall	Commonwealth Hall
<i>Working in Pictures</i>	<i>Laser Holography</i>
Computer-aided design in British Railways	A new tool for scientific measurement
<i>Engineering in Medicine</i>	<i>The Eternal Forest</i>
Unusual applications of engineering	American forests, an essential of daily life
<i>Plant Movements</i>	<i>Collision Avoidance</i>
Time-lapse cinematography to study plant behaviour	A novel rotating cylinder rudder
<i>Deep Sea Endeavour</i>	<i>The History of the Motor Car, Part 1: The Dawn of Motoring</i>
The latest developments in deep sea oil drilling	From the invention of the wheel to the first commercially produced cars
<i>Film Night</i>	<i>Inside Story</i>
Sunday 4 August	Unique film study of the behaviour of bluetits in their nests
20 00	
Commonwealth Hall	
<i>National Trust</i>	<i>Film Night</i>
The wide range of preservation activities in Britain by the National Trust	Sunday 11 August
<i>A Sense of Responsibility</i>	20 00
National Coal Board safety cartoon	Commonwealth Hall
<i>The Private Life of the Wandering Albatross</i>	
The life cycle and habits of one of the longest living birds	<i>The Rainbow Verdict</i>
<i>Canada</i>	Art and technology in the making of British stamps
Impressionistic study of varied life-styles in Canada	<i>Nobody's Fault</i>
<i>Films at Shell Centre</i>	Dramatisation of a research laboratory accident
Wednesday 7 August	<i>Louis Armstrong</i>
	A brief biography of 'Satchmo'
	<i>Festival Casals</i>
	Pablo Casals rehearsing Beethoven's seventh symphony
	<i>Scotland</i>
	A portrait from pre-history to the present day
<i>This is Shell</i>	<i>Chemicals from Petroleum</i>
Glimpses of the oil industry	A general survey
<i>Load on Top</i>	<i>The Rival World</i>
Keeping the seas clean	Man's war against insects

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Computer-aided design in British Railways	A new tool for scientific measurement
<i>Engineering in Medicine</i>	<i>The Eternal Forest</i>
Unusual applications of engineering	American forests, an essential of daily life
<i>Plant Movements</i>	<i>Collision Avoidance</i>
Time-lapse cinematography to study plant behaviour	A novel rotating cylinder rudder
<i>Deep Sea Endeavour</i>	<i>The History of the Motor Car, Part 1: The Dawn of Motoring</i>
The latest developments in deep sea oil drilling	From the invention of the wheel to the first commercially produced cars
<i>Film Night</i>	<i>Inside Story</i>
Sunday 4 August	Unique film study of the behaviour of bluetits in their nests
20 00	<i>Film Night</i>
Commonwealth Hall	Sunday 11 August
<i>National Trust</i>	20 00
The wide range of preservation activities in Britain by the National Trust	Commonwealth Hall
<i>A Sense of Responsibility</i>	<i>The Rainbow Verdict</i>
National Coal Board safety cartoon	Art and technology in the making of British stamps
<i>The Private Life of the Wandering Albatross</i>	<i>Nobody's Fault</i>
The life cycle and habits of one of the longest living birds	Dramatisation of a research laboratory accident
<i>Canada</i>	<i>Louis Armstrong</i>
Impressionistic study of varied life-styles in Canada	A brief biography of 'Satchmo'
<i>Films at Shell Centre</i>	<i>Festival Casals</i>
Wednesday 7 August	Pablo Casals rehearsing Beethoven's seventh symphony
<i>This is Shell</i>	<i>Scotland</i>
Glimpses of the oil industry	A portrait from pre-history to the present day
<i>Load on Top</i>	<i>Chemicals from Petroleum</i>
Keeping the seas clean	A general survey
	<i>The Rival World</i>
	Man's war against insects

Full-day Visits to industrial and research establishments

Tuesday 6 August

Beecham Research Laboratories,
Chemotherapeutic Research Centre.
British Leyland Jaguar Company,
Coventry.
British Petroleum Co. Ltd.,
BP Refinery (Kent) Ltd., Isle of Grain.
British Petroleum Co. Ltd.,
BP Research Centre, Sunbury-on-Thames.
Central Electricity Generating Board,
Dungeness A and B Nuclear Power Stations
Central Electricity Generating Board,
Fawley Power Station.
Esso Petroleum Co. Ltd.,
Fawley Refinery.
Hertfordshire Constabulary
IBM (United Kingdom) Ltd.
Imperial Chemical Industries Ltd.,
ICI Paints Division, Slough

Institute of Naval Medicine,
Gosport, Hampshire
Owen Owen Ltd., Coventry.
Proprietary Perfumes Ltd.,
International Perfumery Centre,
Ashford, Kent.
Rolls-Royce (1971) Ltd.,
Small Engine Division, Watford.
Royal Botanic Gardens, Kew.
Shell Research Ltd.,
Woodstock Agricultural Research Centre.
Shell UK Ltd.,
Shell Haven Refinery.
Van den Berghs and Jurgens Ltd.,
Margarine Works, Purfleet.
Wickman Ltd., Coventry.
Wimpey and Co. Ltd.,
Wimpey Laboratories, Hayes.

Half-day Visits to industrial and research establishments and to University departments Friday 9 August

British Petroleum Co. Ltd.,
Research and Development Department,
Epsom.
Central Electricity Research Laboratories,
Leatherhead.
The City University,
Department of Aeronautics.
Courage (Eastern) Ltd.,
Globe Bottling Store.
Imperial College of Science and
Technology,
Department of Biological Sciences.
Department of Botany.
Royal School of Mines.
Independent Broadcasting Authority,
Television Gallery.
Institute of Cancer Research,
Chester Beatty Research Institute.
J. Lyons and Co. Ltd.,
Lyons Central Laboratories.
King's College, University of London,
Department of Chemistry.

King's College, University of London,
Department of Geography.
London School of Hygiene and Tropical Medicine.
Mullard Ltd.,
Electronics Centre, London, W.C.1.
The National Gallery,
Conservation Department.
The National Gallery,
Science Department.
The Royal Institution.
St. Bartholomew's Hospital,
Department of Medical Electronics.
The Thames Water Authority,
Water Examination Department,
London, E.C.1.
University College, London,
Department of Electronic and Electrical Engineering.
Water Research Centre, Stevenage.
Wellcome Museum of Medical Science.

Residential Staff of the London International Youth Science Fortnight

Commonwealth Hall	Passfield Hall	College Hall
Cartwright Gardens, London W.C.1.	Endsleigh Place, London W.C.1.	Malet Street, London W.C.1.
<i>Chief of Staff</i>	Alastair J. Kennaugh	
<i>Deputy Chief of Staff</i>	Brian Meechan	
<i>Host</i>	Michael J. Parnham	Constantine Costa
<i>Deputy Host</i>	Deirdre Peacock	Linda Harris
<i>Special Duties</i>	Paul Redstone (Excursions and tickets)	Neil Bastin (PA to Director)
<i>Counsellors</i>	Donald Price	Bengt de Verdier
	Steve Haberton	Sally Miller
		Francis Moloney
		Rahul Das

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