



*Fifteenth
London International
Youth Science Fortnight
1973*



The London International Youth Science Fortnight

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The aim of the 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 Science Fortnight is a constituent part of a programme of international events aimed to bring together people of all nations organised annually by
The Council for INTERNATIONAL
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*A programme working group drawn
from the above Consultative Council
plans the details of the programme of
each year's Science Fortnight.*



The tremendous progress of science and technology which has occurred during the last few decades has presented us with a challenge and a choice. On the one hand, we have before us the vision of an exciting and beautiful world, in which all people lead a comfortable and healthy life, with plenty of time for leisure activities or for the pursuit of knowledge and learning. On the other hand, we have the prospect of a world turned into a desolate wilderness, in which all life has withered and died. If we are to take up the challenge, if mankind is to survive, we shall have to adopt completely new attitudes towards many social problems; we shall have to learn to settle international disputes by means other than force; we shall have to eliminate the causes which give rise to international tension, such as hostile propaganda, fear, and mistrust. Above all, we shall have to learn to extend to the whole human species the feeling of belonging and loyalty which we now have towards our own family, community, or nation. We shall have to develop a community of interest for the whole of mankind, irrespective of national boundaries or differences in economic or political systems.

One step towards achieving these aims is by bringing together young people from many countries, to enable them to get to know each other, and develop common interests and responsibilities. This is one of the main aims of the International Youth Science Fortnight, and I hope that you will keep this aim in mind throughout the whole period of your stay in London. I trust that you will find the Fortnight not only interesting and instructive, but also enjoyable and gay; above all, that you will forge friendship which will endure after you have returned home, thus contributing towards the creation of a safer and happier world.

President
London International Youth Science Fortnight

International Praesidium of Honour

(Membership of the Praesidium is open to the Heads of Diplomatic Missions of countries represented at the Fortnight.)

Their Excellencies :

The Ambassador of the Arab Republic of Egypt
The High Commissioner for Australia
The Austrian Ambassador
The Belgian Ambassador
The High Commissioner for Canada
The Danish Ambassador
The French Ambassador
The Ambassador of the Federal Republic of Germany
The High Commissioner for India
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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



As you are attending the International Youth Science Fortnight it is fair to assume that you are already extremely aware of the tremendous advances in Science and Technology in the last few decades. Whatever discipline you favour you can see, read about and in some cases experience, the effect of these advances, many of which are the result of international co-operation. Because of the impact of science on the world and humanity in general it is not easy to be a back-room scientist today. Scientists are not only in the front room but very often in the front window!

One of the biggest effects on international daily life that Science and Technology (which two, go hand in hand) have had over the last two or three decades is in the field of communications. Because of the transistor, communication satellites, the solar cell, colour television, radio links, antenna theory and the like, audiences, which no capital city in the world could contain, can simultaneously (or as near as makes no difference) watch and hear events — often as they happen — across continents. This must have an effect on how we live and think and to some extent makes neighbours of us all.

Over the variety of these world wide communications media this effect of scientific endeavour is given headlines to point the issue of the day. We are variously told we live in the Electronic Age, the Computer Age, the Space Age, the Atomic Age, the Technological Age, the Jet Age and not to forget the humanities the Permissive Age!

It is perhaps interesting to speculate what title future historians will ascribe to the latter half of the twentieth century. Could it be—The Age of Pollution, The Age of exhaustion of Natural Resources—the Age of Over-Population? Could it be the Age of Greatest Benefit? There are rather less than twenty-seven years of this century left which is not really a very great deal of time in which to influence the situation, but it will be a sizeable part of your life time.

I hope that the lectures, the seminars, the visits during this fortnight will expand your horizons. I hope you will enjoy the international fellowship and experience. I hope you will take your place as a front-room scientist and I hope the scientific endeavour in the latter part of the twentieth century will be judged by future generations to have been of the greatest benefit to all nations and not least by reason of the part your efforts and understanding will play.

H. W. Hawkes

H. W. Hawkes
Chairman

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gratefully acknowledges the support and
in many cases continued support of the
sponsors listed above who have selected
and made possible the participation of
the British representation at the Science
Fortnight



Is progress inevitable? Is progress related to or parallel to evolution? To some extent progress is not in the direct control of mankind in some areas which, although not in themselves of major importance, are the background to the existence of mankind on this planet. The climatic conditions of the hemisphere are beyond our control, the supply of natural resources is finite and the evolution of life on the planet is unharnessed. Where man has control of progress is in the use or abuse that he makes of finite resources, and in the direction and the purpose for which he chooses to use them. It would not be an over simplification to suggest that the over-riding need is for man to establish clearly his priorities if he is to ensure that progress is perceptibly maintained, and does not become so diversified and fractured that the threads of development become entangled and the species is trapped in the mesh.

Is all progress good? It would be a happier planet if one could give an affirmative answer to the question, but alas, much progress and many progressive attitudes are divorced from the needs of the majority of mankind and instead directed towards the maintenance of the status quo for established minorities; failing to devote sufficient time, energy and resource to the elevation of the life standard on our planet in total concept. If this situation is to be reversed, it is necessary that more thought should be given to the use of resources and especially to man's principal resource, namely of himself.

Hopefully, this Science Fortnight will encourage you to reflect before you embark on your chosen career on how best you can apply your knowledge in the discipline in which you work, to ensure that your life will be of some significance, not only in terms of your own satisfaction, but in terms of the well-being of your fellow men. It is given to few, if any, to shape the destiny of man, but many people of good intent, each working in what each believes, in honesty, to be the best interest of humanity, must be the first step on the road to true progress. In this Fortnight you will meet many people, you will learn of new ideas and concepts, you will hear the views of scientists established in their careers, before you have decided on the shape of your own career. Do not be afraid later to re-think the shape of your career, but rest assured that you cannot change its purpose. The influences of the two weeks you spend in London will weigh on you, the ideas you hear may influence your thinking. Listen and look and express your view, watching the reaction it evokes from others. Absorb influences but do not allow them to overwhelm you. You are just as significant as another and whether *you* progress to be more significant is your choice.

London
July, 1973

George McGowan
Director
International Youth Science Fortnight

Wednesday 25 July		Arrivals Orientation in Halls of Residence
Thursday 26 July	1100 1415 2000	*Opening Ceremony *Lecture: The EMI-Scanner System Welcome Dance at the Empire Rooms
Friday 27 July	1000 1415 2000	*Forum: "Man and his Food" Topics for Tonight (informal discussions in Halls of Residence)
Saturday 28 July	1000 1400 2000	*Lecture: Explosives Tour of London Optional Theatre Visits Feature Films: "A Home of your Own" "Carry on at your Convenience" (Commonwealth Hall) Recorded Music: Classical Presentation Selection (College Hall)
Sunday 29 July		Optional Excursions to: Stratford on Avon Windsor and Oxford Stonehenge and Salisbury Greenwich by River Scientific Films (Commonwealth Hall)
Monday 30 July	1000 1415 2000	Seminars I Seminars II *Lecture: "Spectroscopy in the vacuum ultraviolet"
Tuesday 31 July	2000	Visits to Research and Industrial Establishments Students' Topics (in Halls of Residence)
Wednesday 1 August	1000 1415 2000	*Debate: Future of the Environment Visit of the Secretary of State for Education and Science University Visits Topics for Tonight (informal discussions in Halls of Residence)
Thursday 2 August	1000 1400 2000	Group A Visit to Shell Centre Group B Visit to Science Museums Group A Visit to Science Museums Group B Visit to Shell Centre Seminars III

PROGRAMME

Friday 3 August		Half Day visits to Industrial and to Research Establishments
	1500	Lecture at the Royal Institution : "Molecules in Microtime"
	2000	International Dance at the Empire Rooms
Saturday 4 August	1000	*Forum : "Survival"
		Optional Theatre Visits
	2000	Feature Film : "The Lion in Winter" (Commonwealth Hall) Recorded Music : Classical Presentation Selection (College Hall)
Sunday 5 August		Optional Excursions to : Stratford on Avon Cambridge and Ely Canterbury and Chartwell Kew Gardens by River
	2000	Scientific Films (Commonwealth Hall) Students' Topics (in Halls of Residence)
Monday 6 August	1000	*Forum :
	1415	"Third World, Population and Nuclear Disarmament"
	2000	Feedback : A critique of the Science Fortnight with the response of the staff concerned
Tuesday 7 August	1000	*Participants' Forum
	1415	*Closing Address
	2000	Farewell Ball at the Empire Rooms
Wednesday 8 August		Departures

**Events marked thus take place at the Institution of Electrical Engineers, Savoy Place, London, WC2.*

Events scheduled after 1800 are optional.

**Speakers at the
Institution of Electrical Engineers,
Savoy Place, London WC2**

Opening Ceremony: Principal Address by Baroness
Tweedsmuir of Belhelvie, Minister of State, Foreign and
Commonwealth Office

- | | | |
|-----------------------|--------------|---|
| Thursday
26 July | 1415 | Lecture: "The EMI-Scanner System—A New Technique for
X-Ray Examination of Brain Tissue"
Godfrey Hounsfield, Head of Medical Systems Section of
EMI Limited's Central Research Laboratories |
| Friday
27 July | 1000
1415 | Forum: "Man and His Food"
"Can we feed the World?"
D. P. Richardson, MSc

"If you have farmers, why do you need food manufacturers?"
Dr I. D. Morton, MSc, PhD, FRIC, FNZIC, FIFST

"Food in the Future"
Professor A. E. Bender, B.Sc, PhD, FRIC

"Fit or Fat?"
D. Miller, BSc of the Nutrition and Food Sciences Department,
Queen Elizabeth College, London |
| Saturday
28 July | 1000 | Lecture: Explosives
Dr R. B. Cundall, BSc, PhD, FRIC, Department of Chemistry,
University of Nottingham |
| Monday
30 July | 2000 | Lecture: Spectroscopy in the vacuum ultraviolet
Dr P. Mitchell, PhD, BSc, Physics Department, University
College, Dublin |
| Wednesday
1 August | 1000 | Debate—"Future of the Environment"
Chairman—Professor K. Mellanby CBE, ScD, FI Biol. of
Monks Wood Experimental Station

Visit of the Right Honorable Mrs. Margaret Thatcher, MP
Secretary of State for Education and Science |
| Friday
3 August | 1500 | *"Molecules in Microtime"
Professor Sir George Porter, FRS |
| Saturday
4 August | 1000 | Director and Fullerian Professor of Chemistry, Royal Institution
"Survival". A Symposium introduced by Mr. K. Helveg Petersen,
Former Minister of Education and of Culture, Denmark
In conversation with Professor Peter Nauer |
| Monday
6 August | 1000
1415 | A Forum of International Scientists who are supporters of the
Pugwash Movement

"Third World and Population—Nuclear Disarmament" |

**At the Royal Institution, Albemarle Street, London W1*

Seminars

Participants have been allocated to Seminars in accordance with their expressed scientific interest. A precis of each participant's seminar subject and details of the venue has been individually advised.

Dates:

1000 Monday, 30 July
1400 Monday, 30 July
2000 Thursday, 2 August

Seminar A

"Industry and the Environment"
introduced by A. D. P. Pride,
BSc(Econ)

Seminar B

"Methylmercury and fish; an
amalgam of Chemistry and
Pollution"
introduced by Dr M. Johnson,
DSc, PhD, FRIC

Seminar C

"Problems in Interdisciplinary
Research and Planning"
introduced by *R. Mitchell, MSc

Seminar D

"Science and Religion—Mutually
exclusive or complementary?"
introduced by *J. Milman, BA

Seminar E

"Radioactivity and Environmental
Research and Development"
introduced by R. M. Longstaff

Seminar F

"Frontiers in Brain Research"
introduced by Dr G. E. Savage,
BSc, PhD

Seminar G

"The Role of the scientist—an
Economist's view"
introduced by Dr R. Smith,
BSc(Econ) PhD

Seminar H

"The New Life Sciences—a case
for the abolition of
Interdisciplinary Barriers"
introduced by Prof F. Franks,
DSc, PhD, FRIC

**Denotes a Leader, former leaders,
member of staff or past participant of
the Science Fortnight.*

Scientific Film Programmes

Sunday 29 July
2000

Commonwealth Hall

"Britannia—A Bridge"

A British Transport study of the
reconstruction of Stephenson's
Menai Railway Bridge

"For your Pleasure"

A cartoon on environmental
conservation

"Why Mathematics?"

A Department of Education and
Science film on new approaches
to maths teaching

"The Web of Life—The Living Tundra"

One of a series of British
Petroleum/BBC Co-Productions
on the natural environment

Sunday 5 August
2000

Commonwealth Hall

"Bridge Across the World"

An account of ICI pharmaceutical
activities in many different
countries

"Not Just for Burning"

Research into coal as a source
material

"The Polyolefins"

Shell study of plastics as
alternative materials for everyday
products

"The Tide of Traffic"

British Petroleum prize winning
study of the motorcar as an
environmental hazard

Topics for Tonight

These informal discussions will take place in Halls of Residence on the dates indicated below. The Speaker will introduce the topic and initiate discussion on the themes outlined.

Friday 27 July
2000

College Hall

"2066 and all that"

introduced by *Sonia Mitchell
BSc.

Genetic Counselling

introduced by *Dr Frances
Calman, MB, BS, DCH

Commonwealth Hall

"Hope in an Exponential World"

introduced by The Rev. Edwin
Morris

Passfield Hall

"Is Life for Living?"

introduced by *Councillor
Andrew J. Hayes, BA, DSA

Wednesday 1 August
2000

College Hall

"Facts or Fairy Tales?"

introduced by Dr Christopher
Calman, BM, DPH

"Is Capitalist Industry Socially
Responsible"

introduced by Michael Forrer,
MA (Hons.) Theology

Passfield Hall

"Participation: Myth or Reality"

introduced by *Christopher P.
Power BSc (Soc)

Commonwealth Hall

"Our Mispent Youth in the
Science Lab"

introduced by *Alistair Kennaugh
BSc

** Denotes a leader, former leader, member of staff or past participant of the Science Fortnight.*

Social Programme

At The Empire Rooms, Tottenham Court
Road, London W1.

Thursday 26 July
2000

to Welcome Dance
2330

Friday 3 August
2000

to International Dance
2330

Tuesday 7 August
2000

to Farewell Ball
2330

Theatre Tickets will be available for
selected productions and for Promenade
Concerts on both Saturday evenings.
Details of optional coach excursions on
Sundays will be circulated separately
during the Science Fortnight.

In Halls of Residence

Saturday 28 July

2000 College Hall

Recorded Music Presentation
Classical Programme

2000 Commonwealth Hall

Feature Films:

"Carry on at your Convenience"

"A Home of your Own"

Saturday 4 August

2000 College Hall

Recorded Music Presentation
Classical Programme

2000 Commonwealth Hall

Feature Film

"The Lion in Winter"

with Peter O'Toole & Katherine
Hepburn

Visits to Universities and Colleges

Wednesday

1 August 1415

Chelsea College of Science and
Technology,
Department of Pharmacy
Professor A. H. Beckett

City University, Department of
Aeronautics
Professor G. A. Tokaty

City University, Department of
Mechanical Engineering
Professor J. C. Levy

Imperial College of Science and
Technology, Department of Botany and
Plant Technology
Professor A. J. Rutter

Imperial College of Science and
Technology, Department of Chemical
Engineering
Professor A. R. J. P. Ubbelohde

Imperial College of Science and
Technology, Department of Mining and
Mineral Technology
Professor M. G. Fleming

King's College, Department of Biophysics
Professor M. H. F. Wilkins

King's College, Department of Chemistry
Professor V. Gold

London School of Hygiene & Tropical
Medicine
Professor L. J. Bruce-Chwatt

Middlesex Hospital Medical School
Professor E. W. Walls

Queen Elizabeth College, Department of
Physics
Professor R. E. Burge

Queen Mary College, Department of
Zoology
Professor N. B. Marshall

Queen Mary College, Department of
Physics
Professor D. H. Martin

St Bartholomew's Hospital, Physics
Department
Professor J. Rotblatt

University College, Department of
Chemistry
Professor D. J. Millen

University College, Computer Centre
Professor P. A. Samet

University College, Electronic & Electrical
Engineering
Professor A. L. Cullen

University College, Department of
Geology
Professor D. T. Donovan

University College, Department of
Zoology and Comparative Anatomy
Professor N. A. Mitchison

Visits to the Scientific Museums of London

Thursday
2 August

1015 Group A

1415 Group B

The Geological
Museum

The Natural History
Museum

The Science
Museum

all at South
Kensington

Visits to Industry and to Research Establishments

Tuesday 31 July

Beechams Laboratories,
Betchworth, Surrey

British Leyland Triumph UK Ltd.,
Coventry

British Petroleum Co. Ltd.,
Sunbury on Thames

British Petroleum Refinery (Kent) Ltd.,
Isle of Grain

Central Electricity Generating Board,
Dungeness 'A' and 'B'
Nuclear Power Stations

Central Electricity Generating Board,
Fawley Power Station

Esso Petroleum Co. Ltd., Fawley

Hertfordshire Constabulary,
Welwyn Garden City

Independent Broadcasting Authority
Television Gallery, Brompton Road,
London SW3

Institute of Naval Medicine,
Alverstoke, Gosport, Hants.

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Croydon, Surrey.

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Dollis Hill, London NW2

Rolls Royce Small Engines Division,
Leavesden, Nr. Watford

Shell UK Limited, Shellhaven Refinery

Shell UK Limited,
Woodstock Research Centre

Torrington Co. Limited, Coventry

Wickmans Limited, Coventry

Wimpey & Co. Limited, Hayes, Middx.

Friday 3 August

Baynard Press,
Bowling Green Lane, EC1

Central Electricity Research Laboratory,
Leatherhead

Chester Beatty Research Institute,
Fulham Road, SW3

Courage (Eastern) Ltd., London, SE1

Kodak Limited, Harrow

J. Lyons & Co. Ltd., Central Laboratories,
Hammersmith

Metropolitan Water Board,
Water Examination Department,
New River Head, Rosebery Avenue, EC1

Mullard Limited, Torrington Place,
London WC1

National Gallery (Conservation Dept.)

National Gallery (Science Dept.)

Port of London Authority, Tilbury Docks

Royal Institution, Albemarle Street,
London W1

Technicolour Limited,
Bath Road, Harmondsworth

Water Pollution Research Laboratory,
Stevenage

Wellcome Museum of Medical Science
Euston Road, London WC1

Residential Staff of the London International Youth Science Fortnight

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Personal Assistant to Director	Brian Meechan		
Editor: Science Fortnight Times		Neil Bastin	
Social Convenor			Rick Tubbs

The residential staff of the Science Fortnight is selected from past participants of the Fortnight and from others associated with projects of the Council for International Contact.

Applications for staff positions from ex participants are considered before Christmas in the year preceding any Fortnight.

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Mr. E. Potter	Honorary Treasurer

Acknowledgements

The Council for International Contact gratefully acknowledges the help given in the organisation of the Science Fortnight by :

The Consultative Council for its help in the planning of the programme, and in particular the Members of the Working Group which planned the concept of the 1973 programme.

The Council and Staff of the Institution of Electrical Engineers for providing premises for the Science Fortnight.

The Speakers, Lecturers, Discussion Group Leaders and Chairmen for their continued support and interest.

The Wardens, Bursars and Staff of the Halls of Residence where participants are accommodated.

The Shell International Petroleum Company Ltd. for its assistance with the programme and with facilities for meetings.

The British Association for the Advancement of Science, through Mr Alec Hughes, for the selection of film programmes.

The many companies, research establishments, colleges and university departments who arranged visits, and particularly the Rev E. Morris of Coventry Industrial Mission for co-ordinating many of the arrangements.

The many sponsors who, by their contribution of scholarships, enable participation from the Commonwealth Developing Countries in the Fortnight.

Without the generous assistance of all of those and many others inadvertently omitted, the Science Fortnight would not be possible.

The photographs on the inside covers of this programme represent projects organised by the Council for International Contact during 1972.

The Sixteenth International Youth Science Fortnight will take place in London from
24 July to 7 August, 1974

for information please contact
The Council for International Contact, Contact House, 308 Earls Court Road, Kensington,
London SW5 9BD



