



25Th

London International Youth Science Fortnight

1983



London International Youth Science Fortnight

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1959-1969

Patron

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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.



YORK HOUSE
ST. JAMES'S PALACE
LONDON S.W.1

FOREWORD

I am very pleased, as Patron of the Science Fortnight, to welcome you all to London. I am sure you will find your time here both stimulating and challenging, as your predecessors have done at these gatherings for almost a quarter of a century.

The application of science for the betterment of mankind and the effects that the impact of technology will have on our quality of life are matters of deep concern for us all. I hope that the meetings and discussions that you will have will help each one of you to focus on some of these questions and bring to you a greater awareness of the needs of the world through the views of people from countries far away from your own.

I wish you an interesting and enjoyable Science Fortnight.

H.R.H. The Duke of Kent
Patron



An Introduction to the Science Fortnight 1983

The Central problem of our time is how to employ human intelligence for the salvation of mankind. For human intellect has created such scientific instruments of destruction that we are in danger of destroying ourselves. The situation is critical and each effort made to relieve it by further scientific advance seems only to aggravate our peril.

This is the real and indeed the most strenuous challenge to man's intellect today. By comparison with it, the conquest of space is of small significance. For until we learn how to live together, until we rid ourselves of the strife that mocks our pretensions of civilisation, our adventures in science, instead of producing human progress will continue to crowd it with greater peril.

This is as much an article of faith as it is an expression of reason. But this is what is required – faith in our ability to do what must be done. Without that faith we shall never get started. And until we get started, we shall never know what can be done.

George McGowan
Director
London International Youth Science Fortnight

(Opposite)
Some highlights of twenty five Science Fortnights





DAILY PROGRAMME

Wednesday 27 July	20 00	Arrivals Orientation & Briefing in Halls of Residence	
Thursday 28 July	11 00 14 15 20 00	*Opening Ceremony *Lecture/Demonstration: "Luminescence" Welcome Disco at the Empire Rooms	
Friday 29 July	10 00 14 15 20 00	University Lectures *Lecture: "Drugs and the Liver" Students' Topics	
Saturday 30 July	16 30	Changing the Guard at Buckingham Palace Optional Half Day Sightseeing Tour of London Inter Hall Swimming Gala at University of London Union Optional Theatre and Concert Visits	
Sunday 31 July	09 00 20 00	Optional day visit to Stratford-upon-Avon Feature Films	
Monday 1 August	10 00 14 15 20 00	Group A: Visit Shell Centre	Group B: *Question Time with Members of Parliament Visit Shell Centre
Tuesday 2 August	20 00	Day Visits to Research & Industrial Establishments Lecture: "The Investigations at Loch Ness"	
Wednesday 3 August	10 00 14 15 20 00	Workshops *Lecture: "Satellites - Threats or Blessings" Feature Films	

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

Thursday 4 August	20 00	Visits to Natural History Museum & Science Museum at South Kensington Topics for Tonight	
Friday 5 August	20 00	Half Day Visits to Industrial & Research Establishments and to University Departments International Evening at Manning Hall University of London Union	
Saturday 6 August	10 00 14 15 20 00	*Lecture: "Tomorrow's Elderly" Inter-Hall Rounders in Regent's Park Optional Theatre and Concert Visits	
Sunday 7 August	09 00 20 00	Optional Day Visit to Stonehenge and Salisbury Feature Film	
Monday 8 August	10 00 14 15 20 00	*Lecture: Lecture at the Royal Institution: "Famous Experimenters in the Royal Institution" *Participants' Forum I	
Tuesday 9 August	10 00 14 15 20 00	*Participants' Forum II *Closing Ceremony Farewell Disco at the Empire Rooms	
Wednesday 10 August		Departures	

With the exception of the Lecture on 2 August, events taking place after 18 00 are optional





Speakers at the Institution of Electrical Engineers

Thursday 28 July	11 00	Opening Ceremony Speakers include: The Rt Hon Lord Briggs President of the Science Fortnight Sir John Mason, CB, DSc, FRS Director General, Meteorological Office Richard O'Kennedy, Ph D. National Institute of Higher Education, Dublin
	14 30	Lecture/Demonstration: "Luminescence" Dr T.F. Palmer, BSc, PhD Department of Chemistry, University of Nottingham
Friday 29 July	14 15	Lecture: "Drugs and the Liver" Professor Dame Sheila Sherlock, DBE, MD, FRCP.
Monday 1 August	10 00 14 15	Question Time with Members of Parliament Andrew Bowden, MBE, MP (Conservative) W.E. Garrett, MP (Labour)
Tuesday 2 August	20 00	Lecture: "The Investigations at Loch Ness" Dr Robert F. Rines President, Academy of Applied Science (USA)
Wednesday 3 August	14 15	Lecture: "Satellites - Threats or Blessings" Geoffrey Perry MBE, F Inst. P
Saturday 6 August	10 00	Lecture: "Tomorrow's Elderly" Professor Sir Ferguson Anderson OBE, KStJ, MD, FRCP
Monday 8 August	10 00 14 15	Lecture: Dr Garry E. Hunt Head of Atmospheric Physics Group, Imperial College of Science and Technology, London *Lecture/Demonstration: "Famous Experimenters in the Royal Institution" Professor Sir George Porter, FRS Director & Fullerian Professor Chemistry, The Royal Institution Director of the Davy Faraday Research Laboratory
	20 00	Participants' Forum I Theme: "For What Use is Science if Mankind Does Not Survive?"
Tuesday 9 August	10 00 14 15	Participants' Forum II (continued) Closing Ceremony Speakers include: George Mc Gowan Director, London International Youth Science Fortnight

*At the Royal Institution, 21 Albemarle Street, London W1



University Lectures

Friday 29 July	10 00 Group 1	"A Chemist's View of Air Pollution" Dr D.B. Hibbert, PhD, CChem, MRSC Department of Chemistry Bedford College, London
	Group 2	"The Tail of Halley's Comet" Dr A.D. Johnstone, BA, MSc, PhD Department of Physics & Astronomy University College, London

Workshops

Participants are allocated to workshops in accordance with their expressed scientific interests. A summary of each workshop subject and details of meeting places are supplied individually.

Wednesday 3 August	10 00 Workshop A:	"Nuclear & Renewable Energy Research in Britain" H.A. Cole, CEng, MIERE
	Workshop B:	"A Different Sort of Applied Maths" G.W. Goodall, BSc, FRS
	Workshop C:	"New Drugs From Plants" Professor P.J. Hylands B.Pharm, PhD, CChem, MRSC
	Workshop D:	"Patterns of Atoms - the 3 Dimensional Structure of Proteins" Dr W.D. Mercer, BSc, PhD
	Workshop E:	"The Thinking Computer - Is Artificial Intelligence Feasible?" P. Redstone, MA
	Workshop F:	"Creating New Food Products" Dr D.P. Richardson, BSc, MSc, PhD



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		Workshop F:	"Creating New Food Products" Dr D.P. Richardson, BSc, MSc, PhD





Day Visits to Industrial and Research Establishments

Tuesday, 2 August

Atomic Energy Research Establishment
Harwell

British Petroleum Co Ltd
BP Research Centre, Sunbury on Thames

Brunel University, Uxbridge
Computing Unit

Central Electricity Generating Board
Dungeness 'A' Nuclear Power Station
Dungeness 400kV Substation

IBM United Kingdom, Ltd
Croydon

Independent Broadcasting Authority
Crawley Court

Institute of Naval Medicine
Alverstoke

Esso Refinery
Fawley

National Institute for Medical Research
Mill Hill

Roche Products Ltd
Welwyn Garden City

Royal Botanical Gardens
Kew

Royal Marsden Hospital
Sutton

Shellhaven Refinery
Essex

Shell Research Ltd
Sittingbourne Research Centre

SEGAS (South Eastern Gas)

Half Day Visits to Industrial and Research Establishments and to University Departments

Friday, 5 August

Chelsea College, London
Department of Pharmacy

City University
Department of Aeronautical Engineering

General Electric Co Ltd
Hirst Research Centre, Wembley

Institute of Cancer Research
Chester Beatty Research Institute

Imperial College of Science & Technology
Department of Chemical Engineering
& Chemical Technology

King's College, London
Department of Biological Sciences

Queen Mary College, London
Department of Physics

Royal Naval College, Greenwich
Department of Nuclear Science
and Technology

J. Sainsbury plc
Laboratories

St Thomas' Hospital
Department of Clinical Chemistry

University College, London
Department of Electronic &
Electrical Engineering

The Zoological Society of London
Institute of Zoology



Topics for Tonight

These informal discussions are open to any participant. The speaker introduces the topic outlined which is then discussed.

Thursday 4 August 20 00 Astor College
"Will the decrease in fossil fuels cause deterioration of life on earth as we know it?"
introduced by Philip Challis

20 00 Astor College
"Can we successfully tamper with nature -- and should we?"
introduced by Colin Hardwith

Social Programme

Thursday 28 July 20 00 Welcome Disco
Empire Rooms, Tottenham Court Road, London WC1

Friday 5 August 20 00 International Evening
Manning Hall, University of London Union, Malet Street, London WC1

Tuesday 9 August 20 00 Farewell Disco
Empire Rooms, Tottenham Court Road, London WC1

Residential Staff of the London International Youth Science Fortnight

	Astor College Charlotte Street London W1P 1LD	Ramey Hall 20 Maple Street London W1P 5GB
Chief of Staff		Colin Hardwick
Deputy to the Director		Roger Mulberge
Host	Alan Ferguson	Deborah Vaughan
Deputy Host	Carole Collins	Philip Challis
Special Duties	Imelda Bennett	Gareth McKinley
Counsellors	Benoit Templier Miguel Antonio Gomes Sunil Gupta	John O'Dea Owen Vaughan Neil Williams Charles Muller



Acknowledgments

The Science Fortnight expresses grateful thanks to all who have generously assisted in the organisation of the Twenty Fifth meeting, and in particular to

The Speakers, Lecturers, Chairman and Discussion Group Leaders, whose contribution of time and expertise is invaluable.

The Consultative Council for its advice, and the Working Group for its assistance with the planning of the programme.

The Council and Staff of the Institution of Electrical Engineers for providing premises and facilities for lectures and meetings.

The many industrial companies, research establishments, university departments, museums etc who welcome participants for visits and lectures.

The British Association for the Advancement of Science, for advice on programme planning and other matters through the good offices of Miss Joan H. Dring.

The Wardens, Bursars and Staff of the Halls of Residence who provide accommodation and meals and the University of London Union for use of its facilities.

The United Kingdom Local Education Authorities, Schools and Colleges, who have met the whole or part of the fees of students from Britain.

Those who grant scholarships to make possible the participation of students from overseas, including the British Council, the United Kingdom National Commission for Unesco, Barclays Bank International Ltd and many others.

Industrial, Commercial & Other Sponsors

Special thanks are due to the following who have helped to make possible the attendance of students from the United Kingdom (list compiled on 30 April, 1983, and therefore incomplete.)

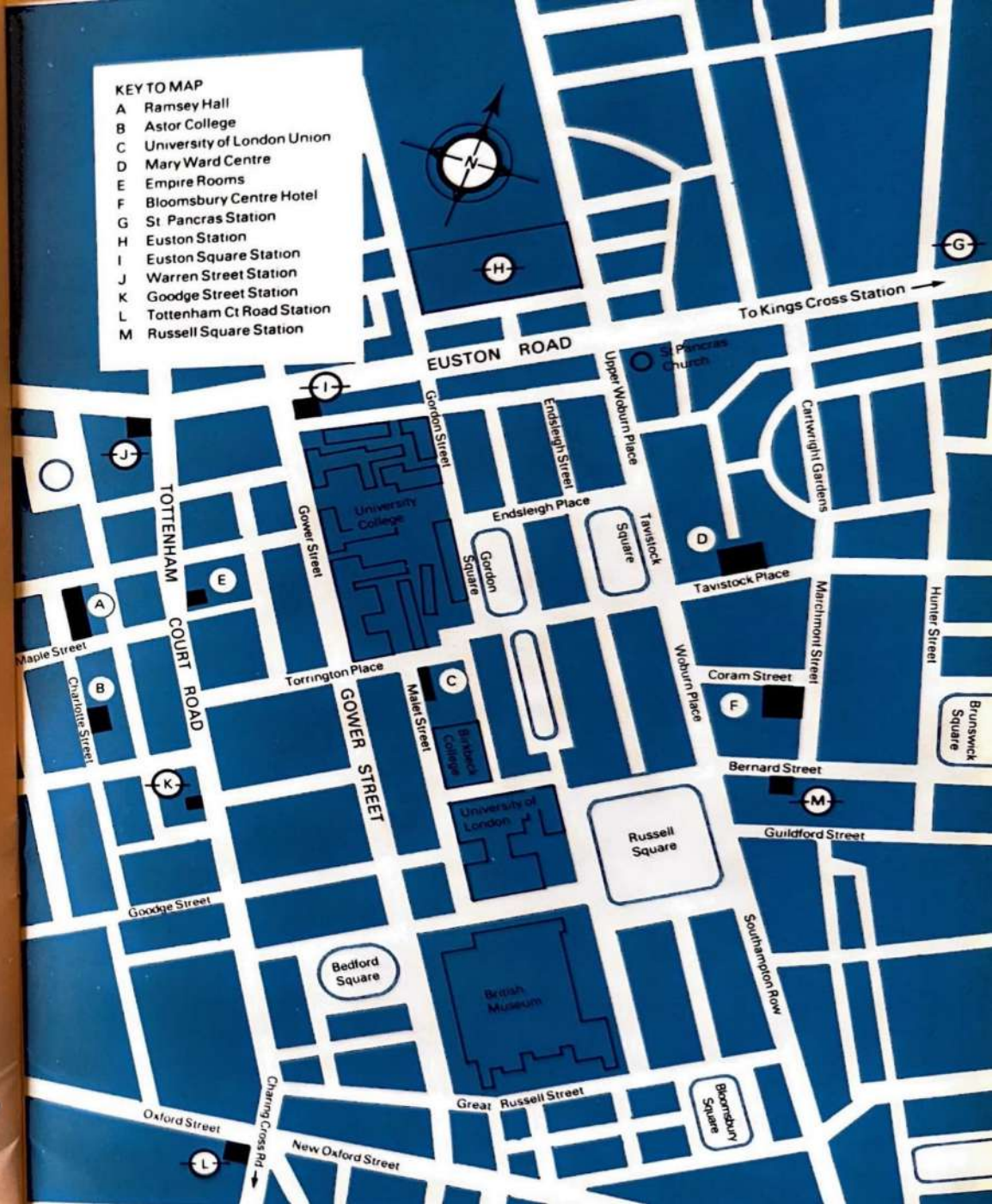
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Apologies are tendered to any omitted from the above lists.

KEY TO MAP

- A Ramsey Hall
- B Astor College
- C University of London Union
- D Mary Ward Centre
- E Empire Rooms
- F Bloomsbury Centre Hotel
- G St Pancras Station
- H Euston Station
- I Euston Square Station
- J Warren Street Station
- K Goodge Street Station
- L Tottenham Ct Road Station
- M Russell Square Station



**The TWENTY SIXTH London International Youth Science Fortnight
will take place from 25 July to 8 August 1984**

The London International Youth Science Fortnight

(L I Y S F Ltd)

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