

25<sup>th</sup>

London International Youth Science Fortnight

1983



## London International Youth Science Fortnight

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1959-1969

### Patron

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### Originator

Philip S. Green, MBE

### Director

George McGowan

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		Arrivals
27 July	20.00	Orientation & Briefing in Halls of Residence
Thursday		"Opening Ceremony
28 July	11.00	
	14.15	"Lecture/Demonstration: "Luminescence"
	20.00	Welcome Disco at the Empire Rooms
Friday		University Lectures
29 July	10.00	
	14.15	"Lecture: "Drugs and the Liver"
	20.00	Students' Topics
Saturday		Changing the Guard at Buckingham Palace
30 July		Optional Half Day Sightseeing Tour of London
	16.30	Inter Hall Swimming Gala at University of London Union
		Optional Theatre and Concert Visits
Sunday		Optional day visit to Stratford-upon-Avon
31 July	09.00	
	20.00	Feature Films
Monday		Group A: Visit Shell Centre
1 August	10.00	Group B: "Question Time with Members of Parliament
	14.15	Group A: "Question Time with Members of Parliament
		Group B: Visit Shell Centre
	20.00	Students' Topics
Tuesday		Day Visits to Research & Industrial Establishments
2 August	20.00	Lecture: "The Investigations at Loch Ness"
Wednesday		Workshops
3 August	10.00	
	14.15	"Lecture: "Satellites - Threats or Blessings"
	20.00	Feature Films

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

Thursday		Visits to Natural History Museum & Science Museum at South Kensington
4 August	20.00	Topics for Tonight
Friday		Half Day Visits to Industrial & Research Establishments and to University Departments
5 August	20.00	International Evening at Manning Hall
		University of London Union
Saturday		"Lecture: "Tomorrow's Elderly"
6 August	10.00	Inter-Hall Rounders in Regent's Park
	14.15	Optional Theatre and Concert Visits
Sunday		Optional Day Visit to Stonehenge and Salisbury
7 August	09.00	Feature Film
	20.00	
Monday		"Lecture:
8 August	10.00	Lecture at the Royal Institution:
	14.15	"Famous Experimenters in the Royal Institution"
	20.00	"Participants' Forum I"
Tuesday		"Participants' Forum II"
9 August	10.00	"Closing Ceremony"
	14.15	Farewell Disco at the Empire Rooms
	20.00	
Wednesday		Departures
10 August		

With the exception of the Lecture on 2 August, events taking place after 18.00 are optional



## 25th 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	Question Time with Members of Parliament
	14 15	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	Lecture: Dr Garry E. Hunt Head of Atmospheric Physics Group, Imperial College of Science and Technology, London
	14 15	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
Tuesday 9 August	20 00	Participants' Forum I Theme: "For What Use is Science if Mankind Does Not Survive?"
	10 00	Participants' Forum II (continued)
	14 15	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, MIEE
		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

## Speakers at the Institution of Electrical Engineers

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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

## 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

- 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)



## Topics for Tonight

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

- |                      |       |  |
|----------------------|-------|--|
| Thursday<br>4 August | 20 00 | Astor College<br>"Will the decrease in fossil fuels cause deterioration of life on earth as we know it?"<br>introduced by Philip Challis |
|                      | 20 00 | Astor College<br>"Can we successfully tamper with nature - and should we?"<br>introduced by Colin Hardwick                               |

## Social Programme

- |                     |       |   |
|---------------------|-------|---|
| Thursday<br>28 July | 20 00 | Welcome Disco<br>Empire Rooms, Tottenham Court Road, London WC1                             |
| Friday<br>5 August  | 20 00 | International Evening<br>Manning Hall, University of London Union, Malet Street, London WC1 |
| Tuesday<br>9 August | 20 00 | Farewell Disco<br>Empire Rooms, Tottenham Court Road, London WC1                            |

## Residential Staff of the London International Youth Science Fortnight

Chief of Staff	Astor College Charlotte Street London W1P 1LD	Ramsey Hall 20 Maple Street London W1P 5GB
Deputy to the Director		Colin Hardwick
Host	Alan Ferguson	Roger Mulberge
Deputy Host	Carole Collins	Deborah Vaughn
Special Duties	Imelda Bennett	Philip Challis
Counsellors	Benoit Templier Miguel Antonio Gomes Sunil Gupta	Gareth McKinley 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.)

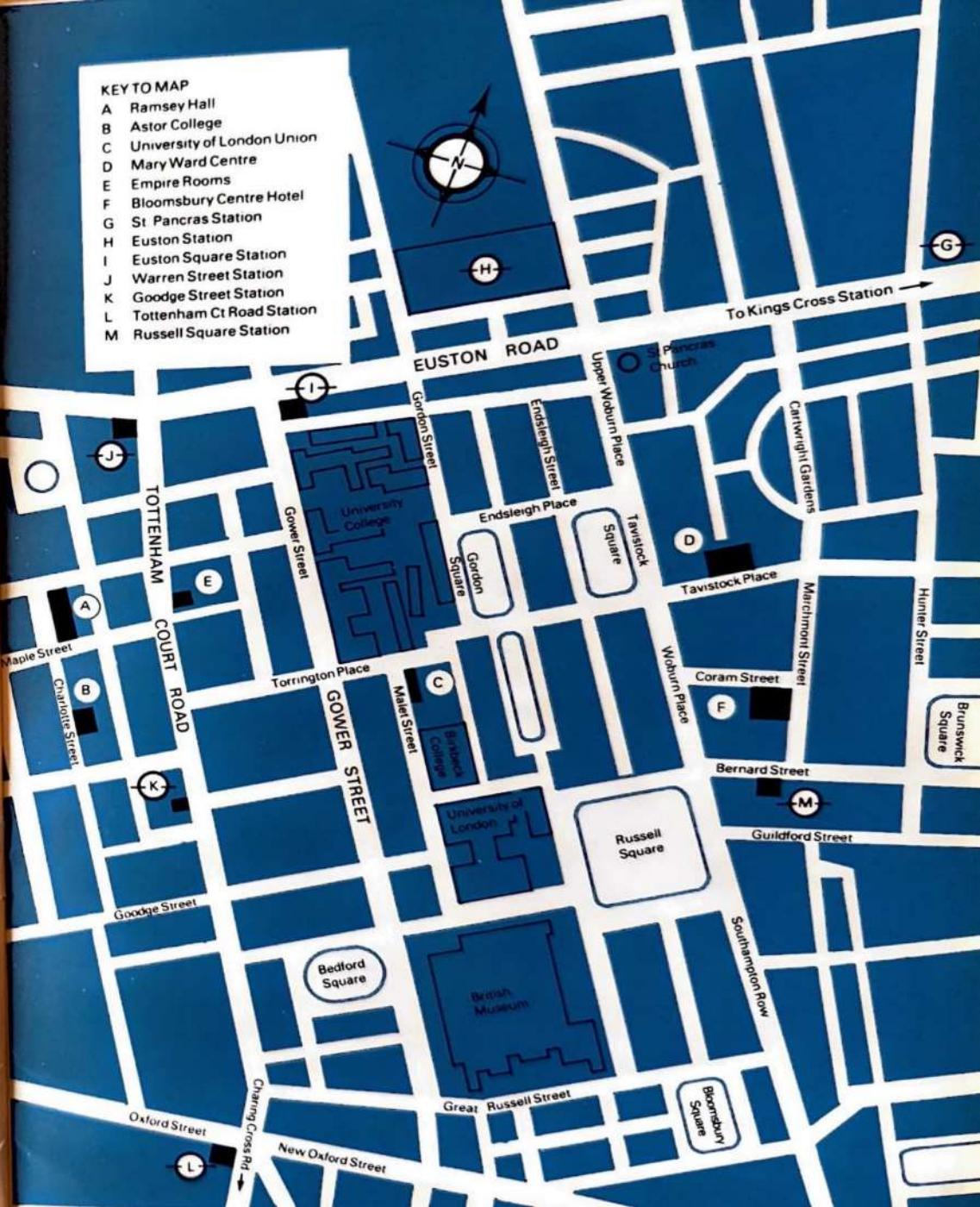
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Apologies are tendered to any omitted from the above lists.

### 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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