

THIRD LONDON INTERNATIONAL YOUTH SCIENCE FORTNIGHT



PATRON: HIS ROYAL HIGHNESS THE DUKE OF EDINBURGH, K.G.

PRESIDENT: THE RT. HON. LORD NATHAN, P.C., T.D., P.R.G.S., F.S.A.

VICE-PRESIDENTS

The Rt. Hon. Lord Luks of Pavenham, T.D., D.L., J.P. Dame Irene Ward, D.B.E., J.P., M.P.

INTERNATIONAL PRAESIDIUM OF HONOUR

His Excellency the Swedish Ambassador.
His Excellency the Italian Ambassador.
His Excellency the French Ambassador.
His Excellency the Austrian Ambassador.
His Excellency the German Ambassador.
His Excellency the Luxembourg Ambassador.
His Excellency the High Commissioner for the Commonwealth of Australia.
His Excellency the Swiss Ambassador.
His Excellency the High Commissioner for Ghana.
His Excellency the High Commissioner for the Federation of Malaya.
His Excellency the Netherlands Ambassador.
His Excellency the High Commissioner for Pakistan.

His Excellency the Yugoslav Ambassador.
His Excellency the American Ambassador.
His Excellency the Belgian Ambassador.
His Excellency the High Commissioner for New Zealand.
The Rt. Hon. The Earl of Home, Secretary of State for Foreign Affairs.
The Rt. Hon. The Viscount Halifax, Q.C.,
Lord President of the Council, Minister for Science.
The Rt. Hon. Sir David Eccles, K.C.V.O., M.P., Minister of Education.
The Portuguese Charge d'Affaires, s.i.
The Danish Charge d'Affaires, s.i.
The Norwegian Charge d'Affaires, s.i.
Mr. K. Helveg Petersen, Secretary General, World Friendship Federation.



ORGANISED BY WORLD



THIRD LONDON INTERNATIONAL YOUTH SCIENCE FORTNIGHT

ORGANISED BY WORLD FRIENDS IN CONJUNCTION WITH THE BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

H.R.H. THE DUKE OF EDINBURGH, K.G. AT THE OPENING OF THE INTERNATIONAL YOUTH SCIENCE FORTNIGHT 1960





BUCKINGHAM PALACE

The London International Youth Science Fortnight has two principal intentions. First, it is hoped that all those attending will gain an insight into science which will be helpful to them in the course of their studies. Secondly, it is hoped that the meeting will produce a sense of common purpose and friendly understanding between individuals of different nationalities. People are naturally inclined to judge a nation by the individuals of that nation known to them personally. Sharing an interest in a common subject and meeting in the usually friendly and interesting atmosphere of an international congress, the chances are that the members will go home with a reasonable view of their international colleagues which they will almost certainly pass on to their friends and relations.

I want you to realise, as you start your fortnight's scientific tours and studies here, that you are joining a great international fraternity which is trying to serve mankind. As Cervantes put it, "Learning without virtue is like a pearl on a dung heap". We all know that science is not always directed to the material improvement of the world but it is equally certain that every true scientist, whatever his work, has the best interests of mankind at heart.

It is in that spirit that I welcome you to this country and to the Science Fortnight. I have no doubt that you will find much that will interest and instruct you in the scientific field but I hope you will also find out many things about each other and about this country which will give you a better and a wider understanding in the years ahead.

Patron.

5th July, 1961.



Joint Organising Council

CHAIRMAN:

The Rt. Hon. Lord Nathan,
P.C., T.D., P.R.G.S., F.S.A.

MEMBERS:

Dame Kathleen Lonsdale, D.B.E., F.R.S.
(British Association for the Advancement of Science)

Dr. W. E. Swinton, F.R.S.E.,
(British Association for the Advancement of Science)

†Mr. Martin Stevens,
(Rank Screen Services Ltd.: Worldfriends)

*Mr. E. N. Matthews,
(Headmaster, De Beauvoir School: Worldfriends)

Mr. A. McTaggart-Short,
(Founder of Worldfriends)

*Mr. P. S. Green, M.B.E.,
(National Director, Worldfriends)

*Mrs. E. Merriell,
(Worldfriends' Organiser for Science Fortnight)

ADVISERS:

*Mr. W. J. Langford, C.B.E., J.P., M.Sc.,
(Headmaster, Battersea Grammar School: Chairman of Administrative Committee)

*Mr. Max Davies,
(Shell International Petroleum Co. Ltd.: Deputy Chairman, Administrative Committee)

*Miss C. J. Arlidge
(Education Department, Federation of British Industries)

*Miss F. M. Eastwood, B.A., B.Sc.,
(Association of Women Science Teachers)

*Mr. D. M. Hall, M.A.,
(Mill Hill School)

*Mr. H. W. Lascelles, M.A.,
(Imperial Chemical Industries Ltd.)

*Miss M. P. C. Mackenzie, B.Sc.,
(Putney High School for Girls)

*Mr. F. R. Reavell,
(Unilever Ltd.)

*Mr. W. F. Spinks, M.A.,
(St. Marylebone Grammar School)

*Mr. R. A. Stevens,
(Asst. Secretary, British Association for the Advancement of Science)

*Mr. L. R. Temple,
(Central Bureau for Educational Visits and Exchanges)

*Mr. A. E. J. Trinder,
(Science Masters' Association)

* Members of Administrative Committee,

† Adviser on Publicity to the Council.



OBSERVERS:

Mr. B. Bevan,
(Foreign Office)

*Dr. C. E. Clarkson, M.Sc.,
(National Union of Teachers)

*Mr. R. M. Gordon, M.A.,
(Education Committee, London County Council)

*Mr. T. M. Pyke, O.B.E., T.D., H.M.I.,
(Ministry of Education)

*Mr. W. O. Ruffle, B.Sc.,
(Education Department, Middlesex County Council)

CHAIRMAN OF
ADMINISTRATIVE
COMMITTEE

Mr. W. J. Langford,
C.B.E., J.P., M.Sc.

To all those taking part in the Fortnight, whether they come from afar or from schools in Greater London, I extend a very warm welcome. May you return home with many new friends in many new lands. If at the end of the Fortnight you feel that it has been really worth while, then please help me to make it even better by sending me your comments, your suggestions and your criticism.

The Third International Youth Science Fortnight breaks important new ground. For the first time countries outside Western Europe are represented and close on sixty boys and girls from provincial schools in the United Kingdom have been sponsored by their Education Authorities. Interest in the Science Fortnight has spread to the Commonwealth, to Eastern Europe and to the United States of America and one can begin to see the Fortnight becoming the meeting ground for the aspiring scientist the world over. As it is, some of those taking part in the Science Fortnight have travelled several thousand miles to get here.

To the parents of the boys and girls in London and in the Western European countries I would like to add my heart-felt thanks. By their generosity and kindness and homeliness they provide the atmosphere in which friendships are made. It is this emphasis upon friendship that makes the Science Fortnight different from other Conferences and so immensely worthwhile.

Purpose Behind Youth Science Fortnight



PHILIP S. GREEN, M.B.E.
Founder and Director.

308 Earls Court Road,
London, S.W.5



John Dalton, Chemist and Founder of the Atomic Theory, quizzing a test tube. (By kind permission of the Science Museum, South Kensington).

The British Association for the Advancement of Science

Founded in 1831, the British Association remains unique as an independent institution of national reputation, which brings almost the whole range of sciences within its scope, and opens its membership, without qualification or nomination, to all who are interested in the progress of science.

It was the example of a German Society—the Deutsche Naturforscher Versammlung—which inspired the foundation of the British Association. In 1831 the Yorkshire Philosophical Society organised the first meeting at York, and Sir David Brewster defined the objects of the Association thus: "The principal objects would be to make the cultivators of science acquainted with each other; to stimulate one another to new exertions; to bring the objects of science more before the public eye and to take measures for advancing its interest and for accelerating its progress.

At that time in Britain the public was indifferent to science, and Government and press were hostile. The tremendous progress which science has made is a measure of the success of the Association in persuading public, government and press that science was important and worth backing.

Today science is of paramount importance not only to Britain, but to the whole world. Only science can provide the answers to some of the problems which face the world. On the other hand, misuse of science can mean the end of life on the planet.

For this reason, the Association regards it as one of its main tasks to promote a better understanding of the significance of scientific research and its impact, through its applications, on society as a whole.

The principal activity of the Association is still the Annual Meeting, held every year since 1831 except for the period of the two world wars. It is a movable Festival of Science, held in a different city each year, and is the greatest scientific meeting in Britain each year. This year the meeting is at Norwich.

The aims of the Annual Meeting were recently defined under three headings: Firstly, to offer a platform on which leading scientists can discuss their work in all its theoretical complexity. Secondly—for such is the specialisation and fragmentation of science—to encourage scientists to discuss in joint sessions problems in related fields and to develop common problems involved in subjects on the frontiers of present knowledge. Thirdly, to provide for non-specialists—whether they be scientists outside their own field or interested laymen—an annual stocktaking in intelligible language which will review the progress of science and help to make clear its significance and possible consequences.

H.R.H. the Duke of Edinburgh, Patron of the International Youth Science Fortnight and a Past-President of the British Association, said at the Annual Meeting on the Indian Science Congress (at which he represented the British Association) in New Delhi on 22nd January, 1959:

"In my opinion, this last objective is more important than ever. Every human invention or discovery can be used for good or for evil and in the end it is the people as a whole who decide which it is to be. It is therefore essential that the possible consequences of scientific research should be put before the forum of ordinary people. Only in this way can the combined opinion of reasonable, upright and humane men and women throughout the world exert the necessary pressure to ensure that science is used to set free and not to enslave mankind."

In addition to the Annual Meeting, the British Association is now undertaking a number of new activities, in all parts of the country and throughout the year, to explain the achievements, significance and impact of science to people of all ages. As one of these activities, it is delighted to be associated with Worldfriends in the organisation of the scientific programme for the International Youth Science Fortnight.

Message from the President of the British Association for the Advancement of Science,



Sir Wilfrid Le Gros Clark, F.R.S.

"I am very glad to send this message of welcome to all those taking part in the Third London International Youth Science Fortnight, on behalf of the British Association for the Advancement of Science.

You are all science students, and in a few years I hope you will all be working scientists. You come from many countries, and it is most encouraging that you should begin at this stage to appreciate the importance of international co-operation in science. There is no problem of the world today which is capable of solution without the aid of science; and I hold strongly the view that in the co-operation of scientists of all countries lies the best hope for the future of mankind.

For this reason I welcome the multiplication of international conferences of working scientists. Certainly in no other type of gathering is there such frankness and such friendliness between nations. If only this frankness and friendliness could be experienced also in the political field, it would be a safer and better world to live in.

The British Association is most pleased to have been able to arrange the scientific programme for the fortnight, which will, I hope, show something of the wealth and breadth of science and its applications in Britain today. Even more important than the scientific programme, however, is that you should enjoy yourselves, and enjoy being with one another.

I send you my best wishes for the Fortnight, and for many years of friendly contact in the service of science and of mankind."

W. Le Gros Clark

programme

Opening Ceremony

The Opening Ceremony will take place at the Royal Geographical Society's Hall on Monday, the 24th July at 11.00 a.m., and The Rt. Hon. Lord Nathan, P.C., T.D., P.R.G.S., F.S.A., the President of the Science Fortnight, will take the Chair. The Address of Welcome will be given on behalf of the Government by Mr. Denzil Freeth, M.P., Parliamentary Secretary to the Minister for Science.

The Scientific Address will be delivered by Sir John Cockcroft, Master of Churchill College, Cambridge, who will speak on "International Co-operation in Science and Technology." The Science Fortnight is greatly honoured that so famous a name in the world of science should take part in the Opening Ceremony. In his early days Sir John Cockcroft studied at the Cavendish Laboratory under the great Lord Rutherford. More recently he was Director of the Atomic Energy Research Establishment at Harwell. As a member of the Tizard Mission to the United States in 1940 and Director of the Montreal & Chalk River Laboratories in 1944, Sir John Cockcroft can draw on wide experience of international co-operation in science and technology.

Lectures

PROFESSOR H. BONDI, F.R.S., on "The Structure of the Universe."

Professor Bondi is Professor of Applied Mathematics at King's College, University of London. Earlier he was Fellow of Trinity College, Cambridge and Assistant Lecturer in Mathematics at Cambridge University. Professor Bondi was born in Vienna and came to England in 1937 since when he has become a naturalised British subject. Abroad, Professor Bondi has been Research Associate at Cornell University and at the Harvard College Observatory. The Professor's principal fields of research are stellar constitution, cosmology, geophysics and interstellar medium. As these notes are written, Professor Bondi has been appointed to the Halley Lectureship in Astronomy and Terrestrial Magnetism at Oxford.

PROFESSOR B. J. MASON, on "Clouds, Rain and Rainmaking."

In 1960 Professor B. J. Mason was appointed Head of the Cloud Physics Department at Imperial College London. During the war he was lecturer and staff officer in the radar branch of the Royal Air Force. Between 1953 and 1959 Professor Mason carried out lecture tours in the United States and Canada, and held important posts at Stockholm University, the University of Frankfurt and at the University of California. Professor Mason has published a number of papers dealing with theoretical and experimental aspects of condensation and precipitation.

Closing Ceremony

The Science Fortnight will close on a very high note indeed with the presence of the Rt. Hon. Lord Hailsham, Q.C., Lord President of the Council and Minister for Science. Lord Hailsham was at one time a practising barrister and as Mr. Quintin Hogg made a great name at the Bar. Today, Lord Hailsham is Leader of the House of Lords, and Lord Rector of Glasgow University apart from the other high offices he holds.

Social Programme for Hostel-accommodated Participants

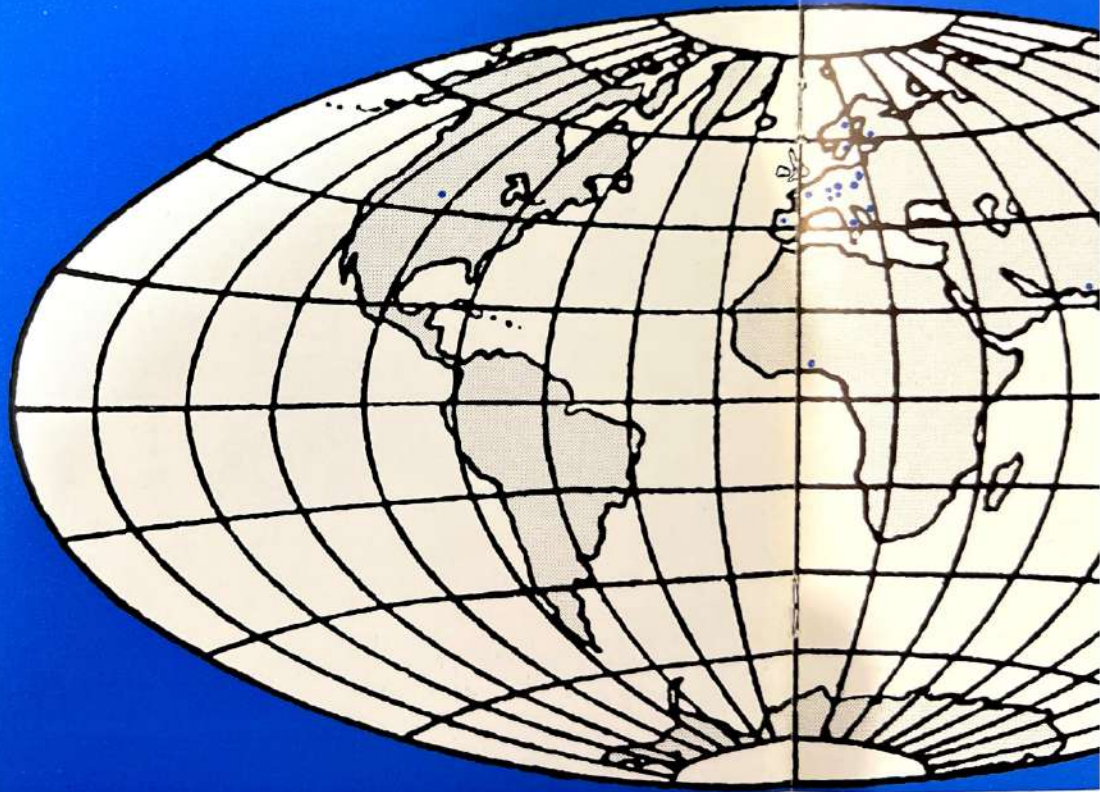
This includes:

Saturday, July 22nd		Tour of House of Commons and Big Ben, Dame Irene Ward, D.B.E., J.P., M.P., as Hostess.
Saturday, July 22nd	(evening)	Welcome Party.
Sunday, July 23rd		Show at Television Studios.
Thursday, July 27th	(afternoon)	Special showing of <i>Spartacus</i> at Metropole Theatre.
Saturday, July 29th		All-day individual entertainment with London families.
Tuesday, August 1st	(evening)	Film Show at 55, Broadway, given by London Transport Executive.
Wednesday, August 2nd	(evening)	Farewell Party.

COUNTRIES REPRESENTED DURING SCIENCE FORTNIGHT BELGIUM PORTUGAL

Sponsoring Bodies:

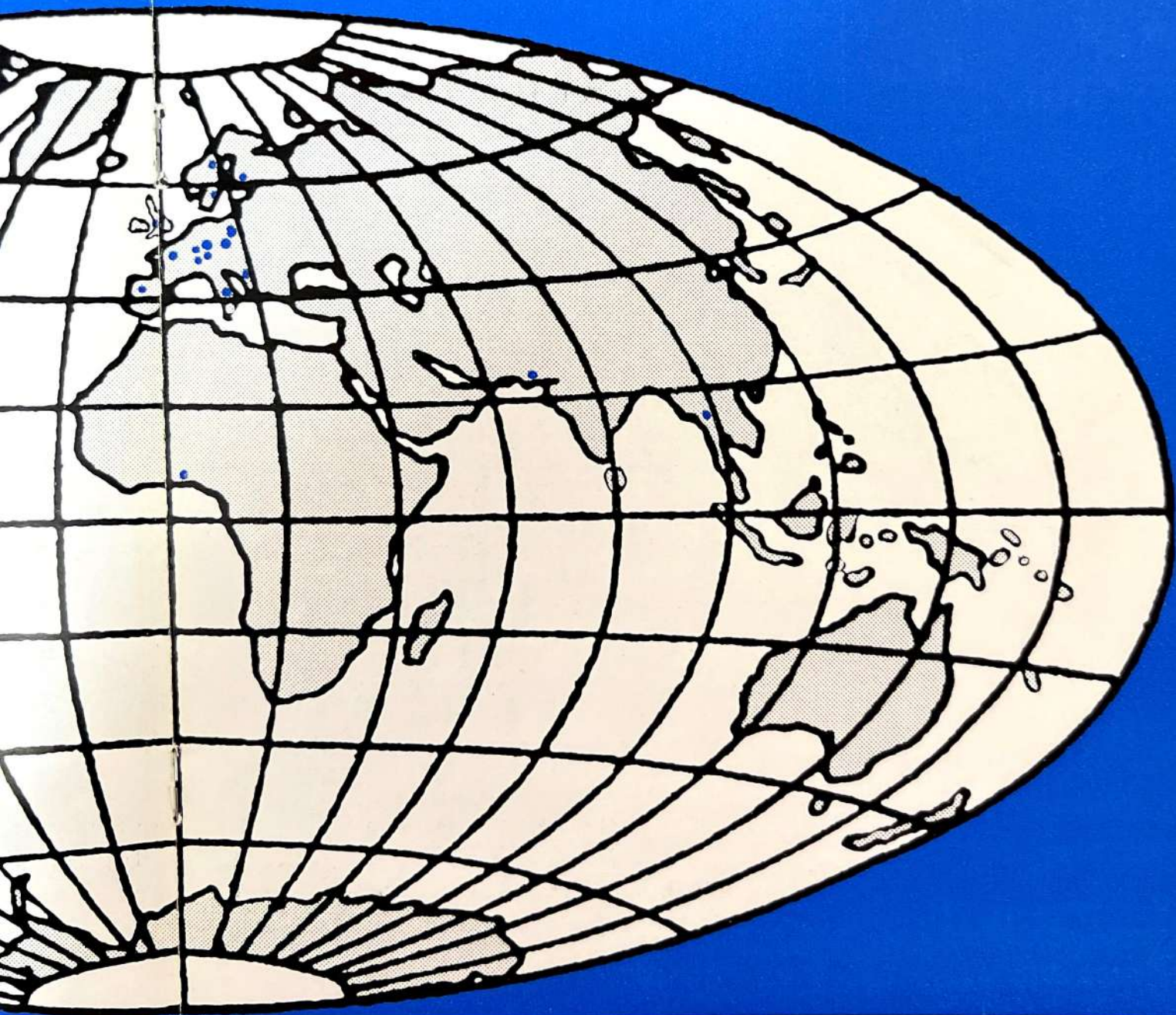
Ministry of Education, Sweden Worldfriends Italiani Mouvements Jeunes Sciences Worldfriends U.K. World Friendship Federation Denmark Norwegian Committee for International Information
Luxembourg Embassy Ministry of Education, Belgium Offices of the High Commissioners for Australia, Ghana, Malaya, Pakistan Nederlandse Stichting Voor Schoolruizen Nederland



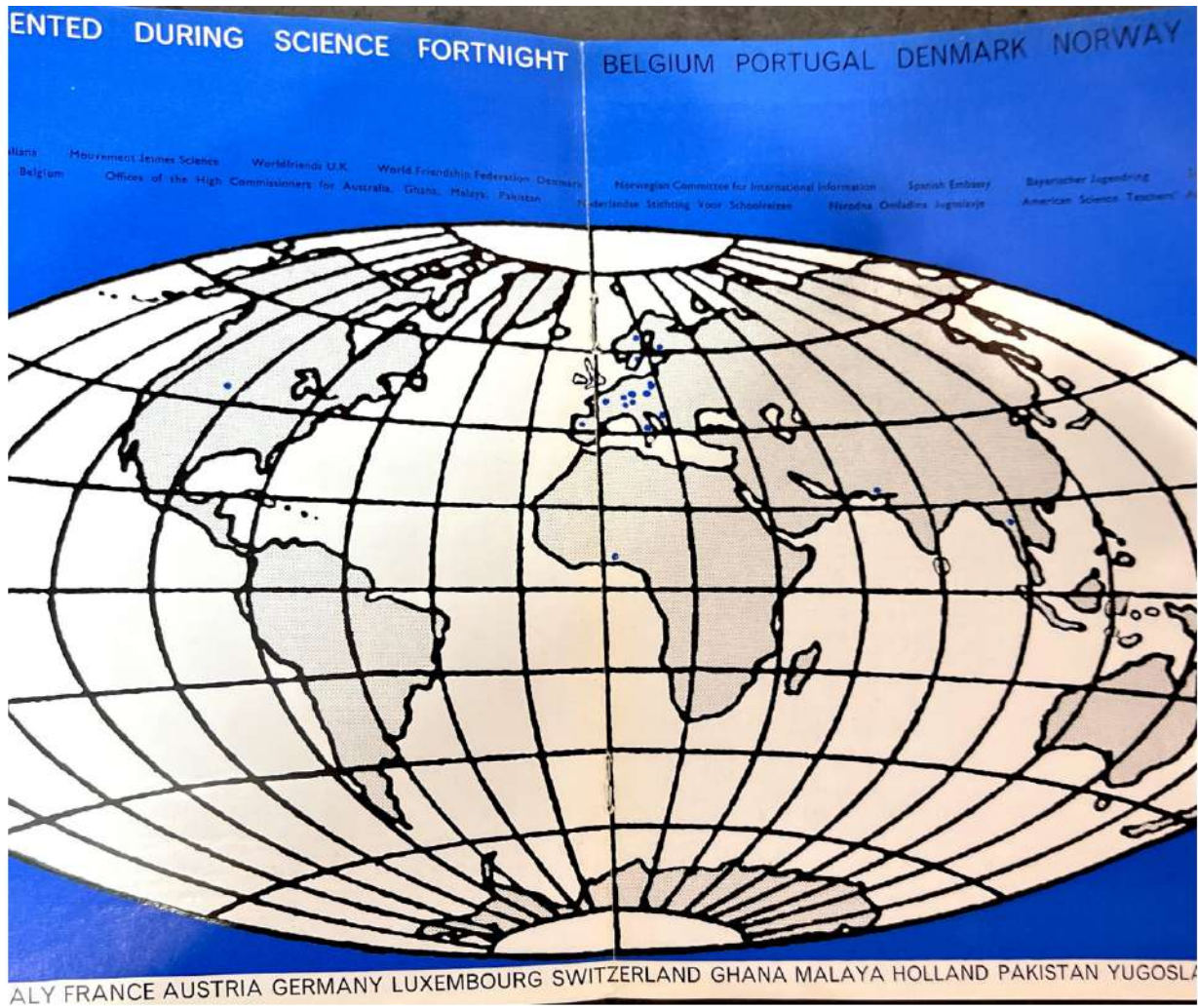
AUSTRALIA SWEDEN ITALY FRANCE AUSTRIA GERMANY LUXEMBOURG SWITZERLAND GHANA MALAYA HC

FRANCE GERMANY ITALY BELGIUM PORTUGAL DENMARK NORWAY GREAT BRITAIN

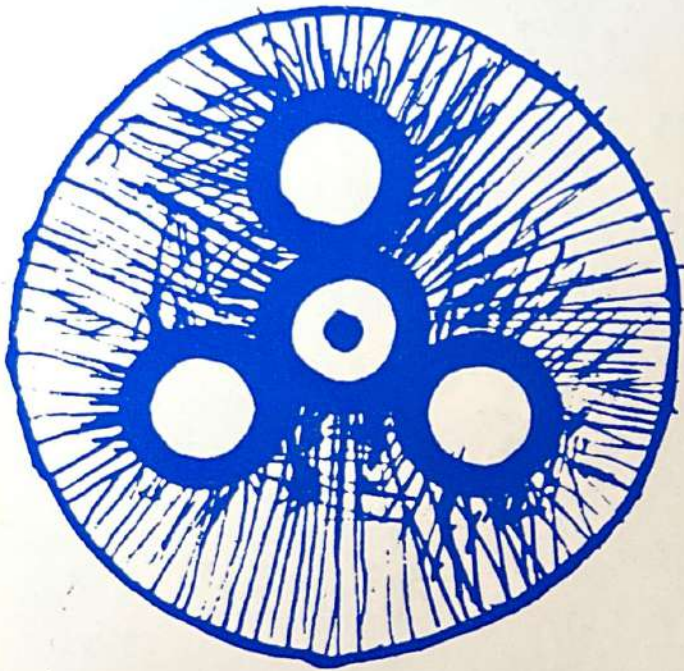
International Federation of Teachers' Associations, Denmark
American Science Teachers' Association
Nederlandse Stichting Voor Schoolreizen
Narodna Omladina Jugoslavije
Norwegian Committee for International Information
Spanish Embassy
Bayerischer Jugendring
Swiss Embassy
Worldfriends Austria
Gulbenkian Foundation
Pakistan



LUXEMBOURG SWITZERLAND GHANA MALAYA HOLLAND PAKISTAN YUGOSLAVIA AMERICA SPAIN



Visits



NOTES ON PLACES TO BE VISITED DURING THE SCIENCE FORTNIGHT

A programme of visits to places of scientific interest has been prepared for each participant. They include:

THE ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL
Initiates new ideas and early development work on all civil aspects of atomic energy.

THE BRITISH COAL UTILISATION RESEARCH ASSOCIATION
One of the largest research Associations with a staff of 300.

THE BRITISH MUSEUM (NATURAL HISTORY)
Chief institution in the British Commonwealth for scientific research in natural history.

BRITISH OXYGEN CO., S.W.19
Research into industrial applications of oxygen.

THE BRITISH SCIENTIFIC INSTRUMENT RESEARCH ASSOCIATION
The laboratories at Chislehurst carry out research on optical, electrical, electronic and mechanical instruments.

THE CENTRAL ELECTRICITY GENERATING BOARD
Owns and operates the power stations and main transmission lines in England and Wales. Visitors will see the Board's permanent exhibition and a power station.

THE CHESTER BEATTY RESEARCH INSTITUTE
Together with the Royal Cancer Hospital's Physics & Radiotherapy departments, forms part of the Institute of Cancer Research.

THE C.I.B.A. LABORATORIES, HORSHAM
Visitors will see the production and distribution of pharmaceuticals.

EAST MALLING RESEARCH STATION
Deals with problems arising from the growth and culture of fruit plants.

THE ELECTRICAL RESEARCH ASSOCIATION
Co-ordinates a wide field of industrial research in the electrical industry. The Laboratories at Leatherhead will be visited.

THE ESSO RESEARCH CENTRE
Research and advisory centre for all Esso Companies in Europe and Northern Africa.

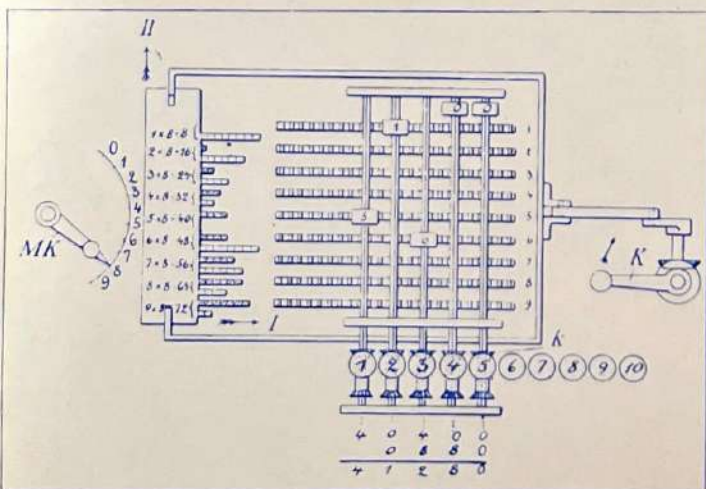
THE FORD MOTOR COMPANY'S FACTORY
at Dagenham is one of the largest in Great Britain. The whole process of manufacture will be seen.

GENERAL ELECTRIC COMPANY LTD.
The atomic energy division at Erith will be visited.

IMPERIAL CHEMICAL INDUSTRIES—PAINTS DIVISION
Visit to the factory and research unit at Slough.

ILFORD LTD.
Brentwood Laboratories are the research unit of the Ilford Photographic Company.

KODAK LTD.
The museum of photography at Harrow contains a number of unique exhibits.



THE NATIONAL COAL BOARD MINING RESEARCH ESTABLISHMENT
at Isleworth will be visited.

THE NATIONAL INSTITUTE FOR MEDICAL RESEARCH, MILL HILL
The principal establishment of the Medical Research Council.

THE NATIONAL INSTITUTE FOR RESEARCH IN DAIRYING
At Shinfield milk production, scientific farm production and dairying as an industry can be studied.

THE NATIONAL PHYSICAL LABORATORY, TEDDINGTON
Important national centre for research in non-nuclear physics.

ROTHAMSTED EXPERIMENTAL STATION
the oldest agricultural research station in the world.

THE ROYAL AIRCRAFT ESTABLISHMENT
at Farnborough carries out research and development work for the British aeronautical industry.

THE ROYAL BOTANIC GARDENS, KEW
300 acres of garden, herbarium and research.

THE ROYAL OBSERVATORY, HERSTMONCEUX
Established at Greenwich by Charles II in 1675. By international agreement in 1884 the prime meridian was fixed through the Observatory's transit circle. The Observatory moved recently to Herstmonceux Castle in Sussex.

SCHWEPPE'S LTD., HENDON
Research in the soft drinks industry.

THE SCIENCE MUSEUM
Rich in material of historical significance.

SHELL RESEARCH LTD., WOODSTOCK AGRICULTURAL RESEARCH CENTRE
Headquarters of all agricultural research carried out in Europe by Royal Dutch Shell Group.

SHELL LABORATORIES, EGHAM
The striking advance in the development of chemicals from petroleum can be studied.

SHELL HAVEN
Shell's largest and most modern refinery in the U.K. Covers 500 acres and has an output of 8 million tons of crude oil per year.

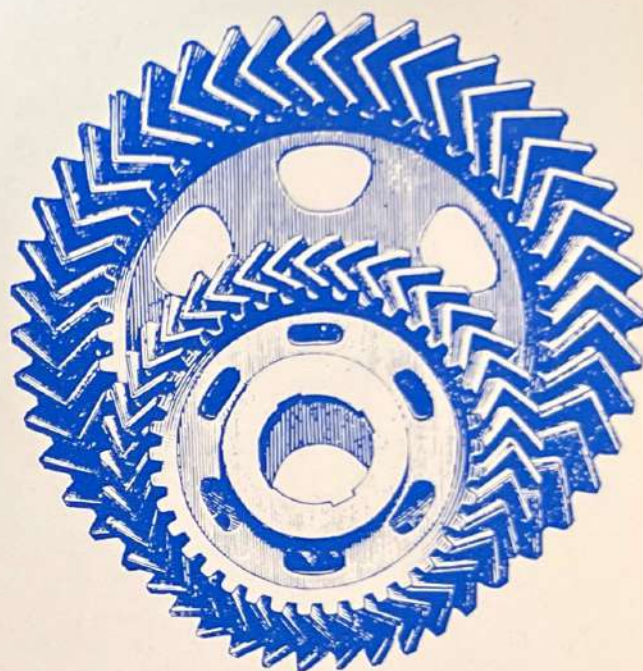
UNILEVER RESEARCH LABORATORIES, COLWORTH HOUSE, BEDFORD
Research into food preservation with particular reference to frozen and canned foods.

VICKERS-ARMSTRONG (AIRCRAFT) LTD., WEYBRIDGE
A Company of British Aircraft Corporation. Manufacturers of civil airliners including the Viscount, Vanguard and V.C.10.

THE WELLCOME CHEMICAL WORKS, DARTFORD
Principal chemical and pharmaceutical manufacturing unit of the Wellcome Foundation Ltd., Extensive laboratories for chemical and biological testing.

THE WELLCOME MUSEUM OF MEDICAL SCIENCE
A teaching museum for tropical diseases. Used extensively by medical students.

WHIPSNADE ZOOLOGICAL PARK
The property of the Zoological Society of London.



Brains Trust

Many of those taking part in the Science Fortnight read the *New Scientist* and they will be particularly glad that Mr. Percy Cudlipp, The Editor, has consented to take the Chair. At the age of 27 Mr. Cudlipp became Editor of the *Evening Standard*; later, he became Editor of the *Daily Herald* and remained so for fourteen years. In 1956 Mr. Cudlipp was appointed first Editor of the *New Scientist* then being planned as a national review of scientific and technological developments. Its outstanding success is a great tribute to Mr. Cudlipp.

Members of the Brains Trust are:

Dr. T. M. Dunn, MSc., Ph.D.
Dr. Patricia Lindop, Ph.D., M.R.C.P.
Mr. B. B. Lloyd, M.A.
Dr. M. F. Atiyah, Reader in Mathematics, University of Oxford.

Dr. DUNN graduated at the University of Sydney. In 1952 Dr. Dunn came to University College, London on an Exhibition Scholarship, and in 1954 he joined the staff of University College. His research has been carried out mainly on the shapes and energy levels of organic and inorganic molecules.

Dr. LINDOP is married with one son. She has interested herself particularly in the social responsibility of scientists and international co-operation amongst them. Dr. Lindop has also devoted much of her time to adult education, especially the education of women. Having studied medicine at Barts (St. Bartholomew's Hospital), Dr. Lindop has specialised in the biological effects of radiation and has carried out research through the Nuffield Research Unit, Department of Physiology, Medical College of St. Bartholomew's Hospital.

Mr. LLOYD is a Fellow of Magdalene College, Oxford and a Demonstrator in the University Laboratory of Physiology. He is also Senior Proctor at Oxford, an appointment hosts may have some difficulty in explaining to guests! Mr. Lloyd is a physiologist with a chemical training and has spent many years doing nutritional surveys and research. More recently his interests have turned toward Vitamin C and the regulation of breathing in human beings. Mr. Lloyd represented the British Association in Ceylon toward the end of 1959 and was one of those who carried out scientific work for Sir Edmund Hillary's ascent of Makalu. His duties as Senior Proctor prevented his accompanying the expedition.

Dr. ATIYAH is Reader in Mathematics in the University of Oxford, is married and has two sons. Dr. Atiyah lived in the Middle East until 1945 and in 1949 became Scholar and Research Fellow of Trinity College, Cambridge. In 1955 he spent one and a half years at the Institute for Advanced Study in Princeton, New Jersey, as a Commonwealth Fund Fellow. Dr. Atiyah has produced several publications in Geometry and Topology.

Shell Film Show

Shell International Petroleum Co. Ltd., will be showing the following films at the National Film Theatre, followed by tea in County Hall.

- | | |
|---------------------|--|
| "The Living Soil" | (The fight against pests living in the soil.) |
| "High Speed Flight" | (Showing the problems of flying at sonic and super-sonic speed.) |
| "The Captive River" | (Showing the construction of the Kariba Dam.) |

Schools

SCOTTISH, WELSH and PROVINCIAL SCHOOLS

Worldfriends and the British Association would like to express their sincere thanks to the Education Authorities, School Heads, and Science Staff who have made provincial participation possible for the first time.

The following schools are represented:

Allerton High School for Girls, Leeds
Bristol Grammar School
Burnage Grammar School, Manchester
Clay Cross, Tupton Hall, Derbyshire
Denbigh Grammar School, Wales
Edinburgh Academy, Scotland
George Watson's College, Edinburgh, Scotland
Grove Academy, Dundee, Scotland
Herbert Strutt School, Derbyshire
James Gillespie's High School for Girls, Edinburgh, Scotland
King Edward's School, Birmingham
King's High School, Warwick
King James's Grammar School, Knaresborough
Launceston College, Cornwall
Leeds Girls' High School
Leeds Grammar School for Boys
Leeds Modern School
Liskeard Grammar School
Ludlow Grammar School
Merthyr County Grammar School, Wales
Newland's Convent, Middlesbrough
Northampton School for Girls
North Manchester Grammar School for Boys
Queen Margaret's School, York
Redditch County High School
Ripon Girls' High School
Ripon Grammar School
Roundhay Grammar School, Nr. Leeds
St. Mary's Convent, Middlesbrough
Stockport School
Swanwick Hall Grammar School, Nottingham
Trinity Academy, Edinburgh, Scotland
Tudor Grange Grammar School, Yorkshire
Tynecastle Senior Secondary School, Edinburgh, Scotland
West Leeds High School

LONDON AND GREATER LONDON SCHOOLS

Worldfriends and the British Association would like to express their sincere thanks to the Heads and Science Staff of the many Schools participating in the Fortnight.

The following schools are taking part:

Abbotsfield County School
Alleyns School
Aylwin Grammar School for Girls
Battersea Grammar School
Borehamwood Grammar School
Catford County School
Charles Edward Brooke School for Girls
Convent of Jesus & Mary High School for Girls, Willesden
Coombe County Secondary Girls' School
Dartford Grammar School
Downer County Grammar School
Drayton Manor Grammar School
Ealing Grammar School for Boys
Eliots Green Grammar School
Enfield County School for Girls
Godolphin & Latymer Girls' School
Hackney Downs Grammar School
Hampton Grammar School for Boys
Heath Clark Grammar School
Highbury Hill High School
Hollyfield County Secondary School
James Allen's Girls' School
John Ruskin Grammar School
Kingsbury County Grammar School
London Nautical School
Lower School of John Lyon
Merchant Taylors School, Northwood
Mill Hill School
Orpington Grammar School for Girls
Owen's Boys' School
Paddington & Maida Vale High School
Pinner County Grammar School
Putney High School for Girls
Romford County High School for Girls
Rutherford School
St. Dunstan's College
St. Joseph's College, Beulah Hill
St. Marylebone Grammar School for Boys
St. Michael's Convent School
St. Olave's & St. Saviour's Grammar School for Boys
St. Paul's Girls' School, Hammersmith
Selhurst Grammar School for Boys
Sir Walter St. John's
South Hampstead High School for Girls
Stationers' Company's School
Streatham Hill and Clapham High School
Sutton County Grammar School
Sutton High School
Whitgift School
Willemton County Grammar School for Boys
Wimbledon County School for Girls
Wimbledon High School for Girls
Woking County Grammar School for Girls
Woodhouse Grammar School for Boys

“ Since wars begin in the minds of men, it is in the minds of men that the defences of peace must be constructed.” It is most

appropriate that I should quote this sentence from the Unesco Constitution because the World Friendship Federation, of which Worldfriends is the British member, has full Consultative Status at Unesco. I like to think of Worldfriends' members as UNESCO COURIERS — young people who stand for the ideals of Unesco, and put them into practice in their everyday life. If there is ever to be tolerance, let alone international understanding, personal friendships based upon standards and ideals are most likely to bring it about. And the time

WORLD FRIENDS

to make friends is when you are young. Friendship isn't something that happens just because two people stay in each other's homes. Friendship is elusive and requires determined effort; common interests are often the cement that binds the two together. In the Science Fortnight you have a common interest and you will probably find that you have others as well when you get to know each other. Most of you — I wish it were all of you but distance at present makes this impossible — will have stayed in each other's homes by the end of the summer. By doing this you will have made a personal contribution to understanding between nations.



A. McTaggart-Short
FOUNDER

About this fortnight

“Space for Wandering *”

In front of me as I write, covering the entire surface of a large desk, are enormous stacks of papers. To a stranger coming into the office these would appear to be nothing more than mountainous piles of forms awaiting space at the back of a cupboard shelf. And yet contained in these sheets of papers are most fascinating stories about the participants in the Science Fortnight. Did you know that, between them, this year's participants speak Dutch, French, German, Flemish, Swedish, Urdu, Slovenian, Norwegian, Danish, Italian, Yiddish, Hebrew, Welsh, Hindi, Hausa, Portuguese, Malay, Turkish, Spanish, English, Gaelic, Chinese, Greek and Japanese? Would you have thought that one girl will have travelled 9,000 miles by the time she returns to her home after the event, and the total distance covered by the overseas participants would go several times round the earth? Could you have guessed that one participant comes from a family of 17 brothers and sisters; that some of the favourite pastimes of our foreign guests include Chinese and Japanese writing, and excavating Greek ruins; that some of them are experts in gliding, archery, skin diving, deep-sea fishing, tiger hunting, and yes, even going on safari?

I have discovered that the scientific interests of the participants cover an amazingly wide field, and that many intend to follow a scientific career in later life. I have been impressed to learn that some of you have already won high recognition in your studies, and that one of you has received the highest prize for students of mathematics in your country.

contd.

"Space for Wandering"

contd.

There are many, many other interesting, indeed absorbing details hidden in these forms and even as you read this they are about to become a reality. As actual participants you now have the opportunity of learning for yourselves even more about one another whilst sharing a common interest in Science. For a whole year we, the administrators, have been working with paper alone, arranging for you to meet during this Fortnight with its spotlight on Science, and planning the group visits abroad which will give you an even greater opportunity to widen your interests. For many of you it will be not only your first journey to Europe but also, perhaps, the Science Fortnight will be the first opportunity you have had to make friends with other people from so many different countries and of such varying backgrounds. I hope that when these stacks of paper are placed on the empty space at the back of the cupboard shelf the promise of new friendships, and the awakening interest they hold, will have been fulfilled, and that this fulfillment will be strengthened in the years that lie ahead. Whether you correspond with your new friends in Japanese writing whilst they hunt tigers on safari or whether you just stick the stamps from your friends' letters into your albums, I feel sure that you will remember this Science Fortnight with the greatest pleasure.



Mrs. ELIZABETH HEARNELL
Organising Secretary of the International Youth Science Fortnight.

* Keep not standing fixed and rooted
Briskly venture, briskly roam
Head and hand, where'er thou foot it,
And stout heart are still at home.
In what land the sun does visit,
Brisk are we, whate'er betide;
To give space for wandering is it
That the world was made so wide.

—Goethe.

Officials representing the organisers during the event :-

COURIERS:

Mr. Jonathan Betts, Selwyn College, Cambridge.
Mr. David Baldwin, Merchant Taylors'.
Mr. Michael Dodd, Caius College, Cambridge.
Mr. Michael Hamand, King's College, Newcastle.
Mr. David Mitchell, St. Andrews.
Mr. Charles Price, Westminster College, Cambridge.
Mr. Stephen Frears, St. Catherine's College, Cambridge.

Miss Carol Ashton, Somerville College, Oxford.
Miss Patricia Collis, I.M. Marsh College of Physical Education.
Miss Caroline Dunkley, St. Andrews.
Miss Caroline Hogarth, Somerville College, Oxford.
Miss Philippa Hunter, St. Andrews.
Miss Anne Morris, St. Hilda's College, Oxford.
Miss Mary Spence, Hockerill Training College.
Miss Jennifer Sayle, St. Andrews.

HOST AND HOSTESS FOR HOSTEL-ACCOMMODATED PARTICIPANTS

PASSFIELD HALL: Mr. and Mrs. B. P. KAHN

Mr. Kahn is Biology Master at Sir Walter St. Johns and
Mrs. Kahn is also a qualified teacher.

BENTHAM HALL: Mr. and Mrs. S. D. FARDELL

Mr. Farnell is Senior Art Master at Battersea Grammar School, and
Mrs. Farnell is also a qualified teacher.

We express our thanks to the Wardens of both hostels for their kind co-operation.

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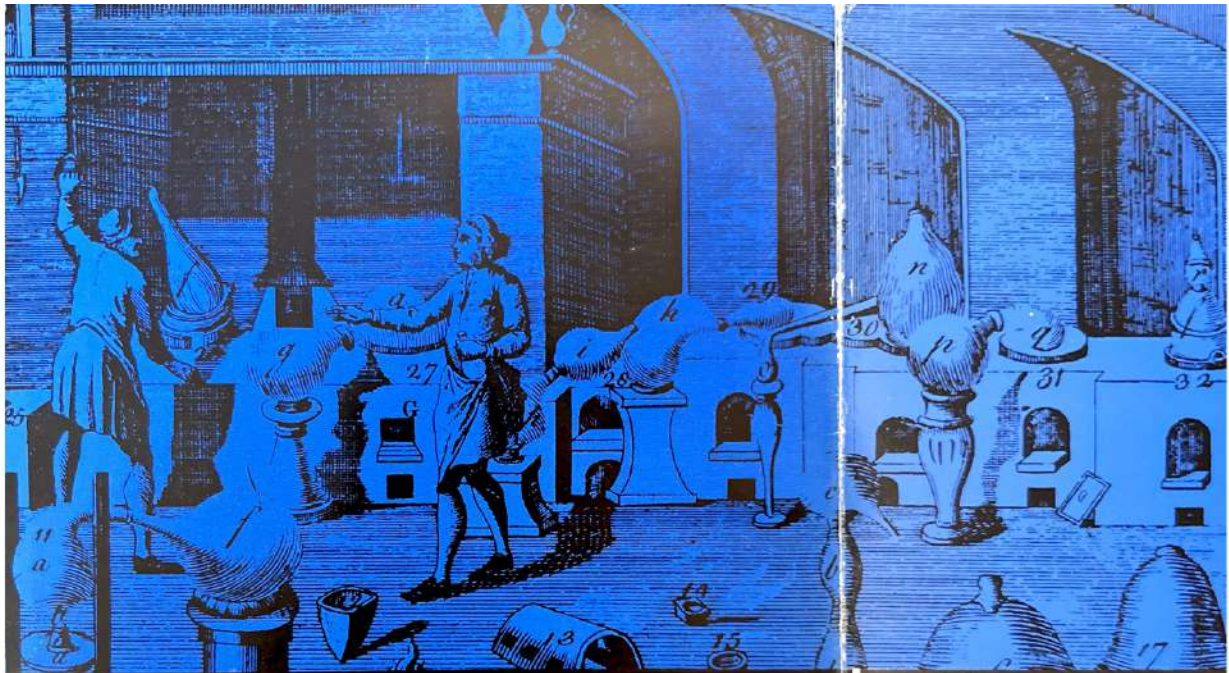
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The technical education of British youth. A scene in a Home Training School.

Our Grateful Acknowledgement and Thanks are due to:

The industrial concerns and research establishments which have invited groups to visit them during the Fortnight. Without their co-operation the Science Fortnight could not have taken place.

The Speakers, Lecturers, Members of the Brains Trust and others not mentioned in the programme for their interest and help.

Engraving above by courtesy of The Science Museum, South Kensington.

The President and Council of The Royal Geographical Society who have most generously given the hospitality of their Hall.

The London Transport Executive for their consideration and help at all times. In countless ways they have contributed to the success of the Fortnight. To Mr. H. Dennis goes our especial gratitude.

Unilever Ltd., the Shell International Petroleum Co. Ltd., Bovril Ltd., and others wishing to remain anonymous who made the months of planning possible by contributing generously to the Working Capital Fund.

The Shell International Petroleum Co. Ltd. for offering the Council and Administrative Committee the use of their Committee Room for Meetings.

Hoover Ltd., for donating so fine a Souvenir Programme.

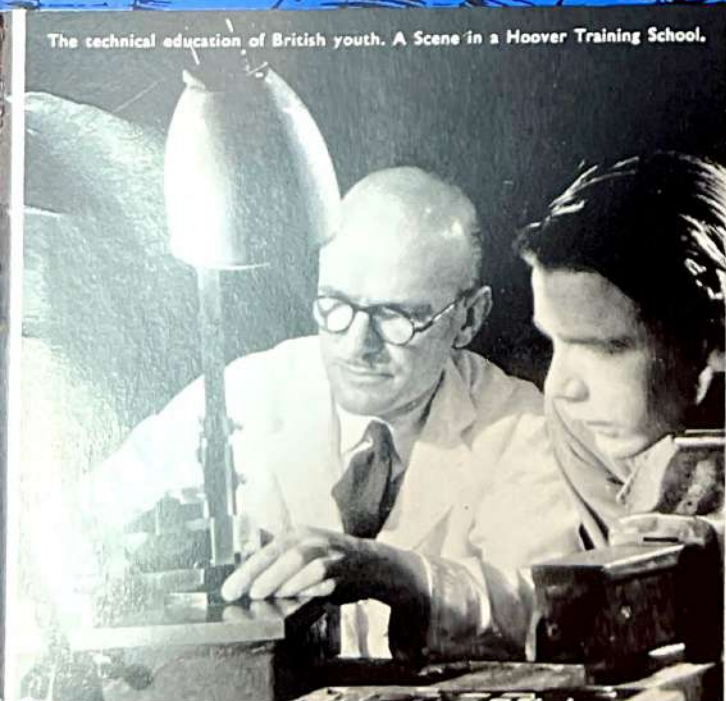
English Electric Co. Ltd., who have offered to produce a Science Fortnight Report.

The Institution of Electrical Engineers for their generous hospitality to the Science Staff leading the foreign groups and members of the Administrative Committee.





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