

IN CONFIDENCE

R.C. 5/65

SCIENCE RESEARCH COUNCIL

DRAFT

OUTLINE ORGANIZATION

OF

SCIENCE RESEARCH COUNCIL

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OUTLINE ORGANIZATION

Memorandum by the Chairman

The outline scheme described here has been prepared under my direction by officers of D.S.I.R. in consultation with the Department of Education and Science and the Treasury in order that the S.R.C. should be able to carry out its functions and duties immediately. This outline scheme must, of course, be read in conjunction with the Science and Technology Act 1965 and the Charter of the Science Research Council (SRC.1).

I invite the Council to examine the scheme and to approve it, as a basis which can be modified later as may be necessary in the light of experience.

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DEPARTMENT OF EDUCATION AND SCIENCE

AND

MINISTRY OF TECHNOLOGY

Ministers and Councils

Department of Education and Science

Secretary of State - Mr. A. Crosland

Ministers of State - Lord Bowden
(Science)

Mr. R. R. Prentice
(Education)

Joint Parliamentary Under-Secretaries) Miss Jennie Lee
Mr. D. Howell

Ministry of Technology

Minister - Mr. F. Cousins

Parliamentary Secretary } - Lord Snow

Permanent Secretary } - Sir Maurice Dean

Permanent Secretary
(Sir Herbert Andrew)

Education

University Grants Committee

Chairmen:

Sir John Wolfenden

Science

Deputy Secretary:
Sir Frank Turnbull

Science Research Council

(Chairman: Sir Harry Melville)

Agricultural Research Council

(Secretary: Sir Gordon Cox)

Medical Research Council

(Secretary: Sir Harold Himsworth)

Natural Environment Research Council

(Chairmen: Sir Graham Sutton)

Council on Scientific Policy

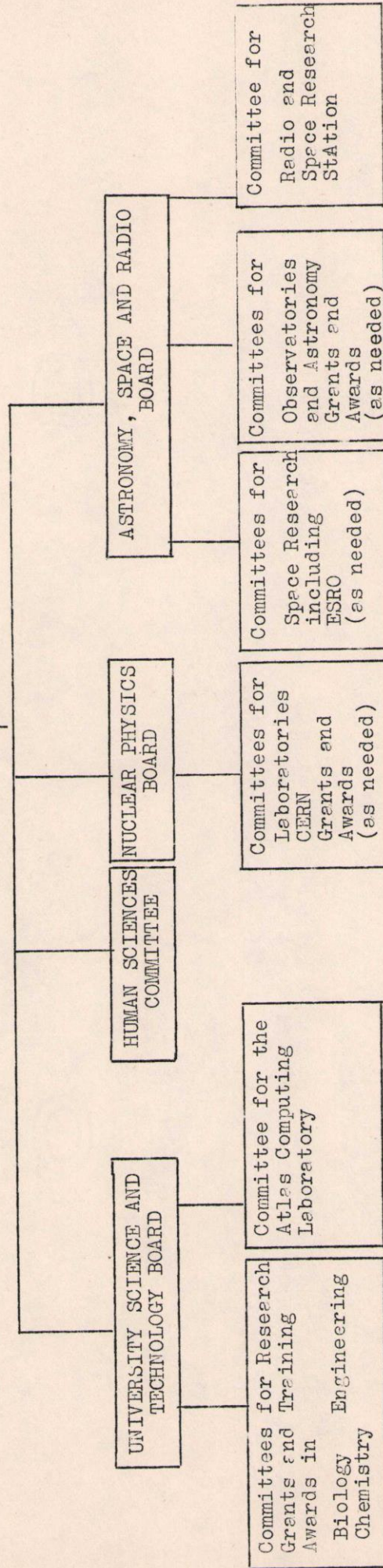
Chairman:

Sir Harrie Massey

SCIENCE RESEARCH COUNCIL

Council, Boards and Committees

SCIENCE RESEARCH
COUNCIL

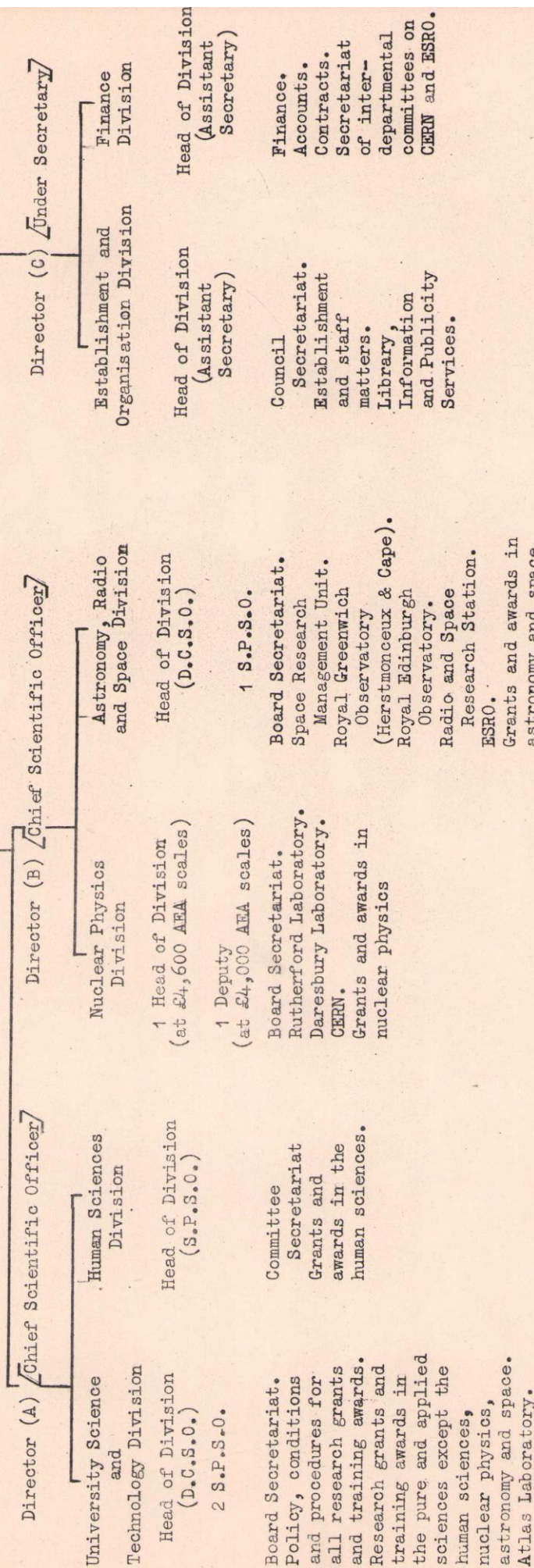


SCIENCE RESEARCH COUNCIL

Headquarters Staff Organisation and Senior Posts

Chairman of Council

Secretary (£5,250)



Civil Service Pay Scales

Chief Scientific Officer/Under Secretary - £4,700

Deputy Chief Scientific Officer - £3,625 - £4,025

Senior Principal Scientific Officer - £3,050 - £3,475

Assistant Secretary - £3,050 - £3,900.

SCIENCE RESEARCH COUNCIL

Chairman: Sir Harry Melville, K.C.B., F.R.S.

Members:

Lord Halsbury

Dr. A. Caress,
Director of Research, I.C.I.

Dr. D.G. Christopherson, O.B.E., F.R.S.,
Vice-Chancellor and Warden of
Durham University.

Dr. S.C. Curran, F.R.S.,
Vice-Chancellor, University of
Strathclyde, Glasgow.

Professor G.C. Drew,
Professor of Psychology, University
College, London.

Professor M.R. Gavin, M.B.E.,
Professor of Electronic Engineering,
University College of North Wales, Bangor.

Professor Sir Ewart Jones, F.R.S.,
Waynflete Professor of Chemistry,
University of Oxford.

Professor Sir Bernard Lovell, O.B.E., F.R.S.,
Professor of Radio Astronomy,
University of Manchester,
Director of Jodrell Bank Experimental Station.

Professor K. Mather, C.B.E., F.R.S.,
Professor of Genetics,
University of Birmingham,
Vice-Chancellor elect, University of
Southampton.

Professor C.F. Powell, F.R.S.,
Henry Overton Wills Professor of Physics,
University of Bristol.

Professor J.E. Smith, F.R.S.,
Professor of Zoology,
Queen Mary College,
University of London,
Director elect Marine Laboratory, Plymouth.

Assessors:

Royal Society

Engineering Institutions Joint Council

University Grants Committee

Ministry of Defence

Ministry of Technology

I propose that the Secretary and the three Headquarters
Directors should attend all meetings of the Council.

1. UNIVERSITY SCIENCE AND TECHNOLOGY DIVISION

Functions

1. To make research grants to the staff of universities and colleges and other scientists, in pure and applied science and technology; to determine policy relating to the number, distribution, conditions of award and value of grants; to consider and award grants in response to applications received and to propose grants to develop fields of science and technology of timeliness and promise.
2. To make training awards (studentships, fellowships, etc.) to scientists and technologists in training at universities, colleges or other scientific institutions; to determine policy relating to number and distribution of awards, conditions of award, value, etc; and to consider and devise other ways of encouraging the training of scientists.
3. To administer the Atlas Computing Laboratory.

Scope

This Division will make grants and awards in Biology, Chemistry, Computing Science, Mathematics, General Physics, Aeronautical and Civil Engineering, Chemical Technology, Electrical & Systems Engineering, Mechanical and Production Engineering and Metallurgy and Materials.

It will act in close liaison with the Human Sciences, Nuclear Physics and Astronomy, Space and Radio Divisions in their grant and award-making activities.

It will continue to deal with grants and awards in Geology etc. until these are taken over by the N.E.R.C.

Board and Committees

Board for University Science and Technology (to be appointed in September, 1965)

Proposed Chairman: Professor Sir Ewart Jones
(Oxford: Chemist)

Proposed Members:

Dr. A. Caress	(I.C.I; Chemist)
Sir James Cook	(Exeter; Vice-Chancellor)
Professor P.V. Danckwerts	(Cambridge; Chemical Engineer)
Dr. H.M. Finniston	(International Research and Development Ltd.)
Professor M.R. Gavin	(Bangor; Electrical Engineer)
Lord Halsbury	(Chemist; Engineer)
Dr. J.V. Menter	(Tube Investments Research Laboratories; Metallurgist)
Professor R.S. Nyholm	(University College, London; Chemist)
Professor E.J. Richards	(Southampton; Aeronautical Engineer)
Professor J.E. Smith	(Queen Mary College, London; Plymouth; Zoologist)
Professor I.N. Sneddon	(Glasgow; Mathematics)
Sir Peter Venables	(Aston in Birmingham; Vice-Chancellor)

Further suggestions for an engineer, a biologist and a physicist will be made at the meeting.

Assessors: from U.G.C., Ministry of Technology, Royal Society, Engineering Institutions Joint Council.

Period of service: 3 years, extendable to 5.

Terms of Reference: to advise the Science Research Council on the award of Research Grants and Training Awards; and the operation of the Atlas Computing Laboratory.

Existing Committees

It is proposed to invite the existing Research Grants Committee and Postgraduate Training Awards Committee and their Sub-Committees (Appendix) to advise the S.R.C. until September 1965, in order not to make a change in the course of the academic year.

It is also proposed then to integrate more closely the Research Grants and Training Awards functions of the Grants Division of D.S.I.R., having one Board advising on both these aspects to replace the Research Grants Committee and the Postgraduate Training Awards Committee; and one set of Committees to replace the previous two sets of Sub-Committee.

Committees for Grants and Awards

It is proposed that from October 1965 ten Committees of the U.S.T.B. should advise on the awarding of Research Grants and Training Awards in response to applications, and keep their fields of science under review and make recommendations for new researches. The funds available for each subject and the conditions of the grants and awards would be considered by the Board. These Committees would be appointed by the Council, on the advice of the Board.

Steering Committee for Atlas Computing Laboratory

This existing Committee advises on the management of the Laboratory, its scientific programme and the allocation of its facilities for use by universities, government and others.

Liaison with other Divisions

Grants and awards in human sciences, nuclear physics, astronomy and space would be made by the appropriate Divisions but upon conditions common to all subjects settled by the University Science and Technology Board in consultation with the other Boards.

Staff

1 C.S.O., 1 D.C.S.O., 86 others organised in the following groups

Policy Group

Secretariat of Board

Conditions of Grants and Awards

Relations with U.G.C., D.E.S., Ministry of Technology

Finance and Estimates

Forward Plans

Basic Science Group

Grants and Awards in

Biology

Chemistry

Computing Science

Mathematics

General Physics

(Liaison with other Divisions for Grants and Awards on Nuclear Physics and Astronomy, Space and Human Sciences)

Applied Science Group

Grants and Awards in

Aeronautical and Civil Engineering

Chemical Technology

Electrical & Systems Engineering

Mechanical & Production Engineering

Metallurgy and Materials

Atlas Computer Laboratory, Chilton, Berks.

Director - Dr. J. Howlett

60 Staff

2. HUMAN SCIENCES DIVISION

Functions

To make research grants and awards in the human sciences.

Human Sciences Committee

It is proposed to invite the existing Human Sciences Committee and its Sub-Committees to advise the S.R.C. until any changes may be made following the Report of the Heyworth Committee on the Social Sciences.

Chairman: Professor C.G. Drew

Members:

Professor R.G.D. Allen	(London School of Economics (Statistics))
Mr. H.A. Clegg	(Oxford (Nuffield College))
Mr. A.G.P. Elliott	(Standard Telephones and Cables Ltd.)
Professor M. Fortes	(Cambridge (Faculty of Archaeology and Anthropology))
Professor H. Kay	(Sheffield (Psychology))
Mr. W.M. Larke	(Stewarts & Lloyds Ltd.)
Mr. S.A. Robinson	(National Union of Boot and Shoe Operatives)
Mr. J. Wadsworth	(Part Gate Iron and Steel Co. Ltd.)
Mr. A.T. Welford	(Cambridge (St. John's College))
Mr. D.L. Woodbine Parish	(Bovis Ltd.)

Assessors

University Grants Committee	Mr. R.C. Griffiths
Ministry of Labour	Mr. K. Barnes
Medical Research Council	Dr. R.C. Norton
Ministry of Education	Mr. R. Toomey

Sub-Committees:

Grants
Training

Staff

1 S.P.S.O. and 2 others

3. NUCLEAR PHYSICS DIVISION

Functions: to make research grants and training awards for nuclear physics in universities and colleges; to administer national facilities for nuclear physics research at Chilton and Daresbury; to manage the U.K. participation in CERN; to integrate these activities into a national nuclear physics programme.

Board for Nuclear Physics (to be appointed in April, 1965)

Proposed Chairman: Professor C.F. Powell

Proposed Members:

Professor J.C. Gunn

Professor R.J. Blin-Stoyle (Sussex)

Professor C.C. Butler (I.C.S. London)

Dr. S.C. Curran (Strathclyde; Vice-Chancellor)

Professor J.M. Cassels (Liverpool)

Professor B.H. Flowers (Manchester)

Dr. K. Mather (Southampton; Vice-Chancellor)

Professor D.H. Wilkinson (Oxford)

• Dr. T.G. Pickavance (Director, Rutherford Laboratory)

Professor A.W. Merrison (Director, Daresbury Laboratory)

Assessors: U.G.C., Ministry of Technology.

Committees

Committees and Sub-Committees will be proposed by the Board as they are found to be necessary, meanwhile it is proposed that the existing committees in this field (NIRNS Executive Committee, Nuclear Physics Sub-Committee of the Research Grants Committee and the CERN Panel) would be asked to continue.

Staff

Head of Division - (to £4,600 p.a. on A.E.A. scales)

Other staff: 20

Laboratories

Rutherford High Energy Laboratory, Chilton,
Berks.

Director - Dr. T.G. Pickavance
and 957 Staff

Daresbury Nuclear Physics Laboratory, Cheshire.

Director - Professor A.W. Merrison
and 204 Staff

4. ASTRONOMY, SPACE AND RADIO DIVISION

Functions

To make research grants and training awards for astronomy and space in universities and colleges; to administer the Royal Observatories and the Radio and Space Research Station; to manage the U.K. participation in ESRO and the U.S.- U.K. and other international programmes and to integrate these activities into a national astronomy and space programme.

Astronomy, Space and Radio Board (to be appointed April, 1965)

Proposed Chairman: Professor Sir Bernard Lovell

Proposed Members:

Professor W.G. Beynon	(Aberystwyth; Physicist)
Professor R.L.F. Boyd	(U.C. London; Physicist)
Dr. D.G. Christopherson	(Durham, Vice-Chancellor)
Dr. E. Eastwood	(Marconi Ltd.; Research Director)
Dr. G.G. Macfarlane	(R.R.E., Malvern; Physicist)
Professor W.H. McCrae	(Royal Holloway College, London; Mathematician)
Professor A.A. Miles	(Lister Institute; Pathologist. Secretary, Royal Society)
Professor R.O. Redman	(Cambridge; Astro- physicist)
Professor M. Ryle	(Cambridge; Astronomer)
Professor P.A. Sheppard	(I.C.S., London; Meteorologist)
Professor H.A. Brück	
Mr. J.A. Ratcliffe	
Sir Richard Woolley	

Committees and Sub-Committees will be proposed by the Board as may be necessary. Meanwhile the existing British National Committee on Space Research and the Astronomy Sub-Committee of the Research Grants Committee will be asked to continue to carry out their present grant giving functions.

Staff

Head of Division - D.C.S.O.
and 30 staff

Policy Group

Secretariat of Board

Integration of scientific programmes

Finance and Estimates

Grants and Awards in Astronomy and Observatories

Award of research grants, including major grants for large facilities and consolidated grants for university research programmes; allocation and award of studentships and fellowships; liaison with U.S.T.D. in making awards and settling conditions of award. Administration of the 3 observatories.

Space Research Management Radio and Space Research Station

This Group will integrate the management of the U.K. Space research programme, including participation in ESRO, the U.K. - U.S. co-operative programme and other inter-national collaboration, make research grants and administer the Radio and Space Research Station.

Establishments

1. Radio and Space Research Station, Datchet, Berks.
Director: Mr. J.A. Ratcliffe; 229 other staff.
2. Royal Greenwich Observatory, Herstmonceux; and
Observatory at the Cape of Good Hope
Astronomer Royal: Sir Richard Woolley; 240 staff.
3. Royal Observatory, Edinburgh
Astronomer Royal for Scotland: Professor
H.A. Bruck
60 Staff.

5. ESTABLISHMENT, FINANCE AND COUNCIL SECRETARIAT

Functions

This Division provides the Council Secretariat, the normal Establishment and Finance Services, a Press Office and a library service; and the joint secretariat of the U.K. interdepartmental Committees on CERN and ESRO.

Staff

Head of Establishment and
Organisation Division (Assistant Secretary)

Head of Finance Division (Assistant Secretary)

and 110 Staff

APPENDIX

1. Research Grants Committee

Chairman: Professor Sir Ewart Jones

Members:

Professor J.F. Allen

Professor W.J.G. Beynon

Sir James Cook (ex officio)

Dr. S.C. Curran

Professor K.C. Dunham

Professor B.H. Flowers

Professor M.R. Gavin

Lord Halsbury

Dr. D.W. Hill

Professor L. Howarth

Professor Sir Bernard
Lovell

Dr. J.W. Menter

Professor W.T.J. Morgan

Professor J.L.M. Morrison

Professor R.S. Nyholm

Mr. D.A. Oliver

Professor G. Porter

Professor E.J. Richards

Professor A.L. Roberts

Professor O.A. Saunders

Professor J.E. Smith

Assessors

The Chairman of the University Grants Committee	Sir John Wolfenden
The Physical and Biological Secretaries of the Royal Society	(Professor Sir William Hodge (Cambridge (Maths.)) Professor A.A. Miles Director, Lister Institute of Preventive Medicine

Sub-Committees:-

Astronomy	General Physics
Biology	Nuclear Physics
Chemistry	Aeronautical & Civil Engineering
Computing Science	Chemical Technology
Geology and Geophysics	Electrical & Systems Engineering
Mathematics	Mechanical & Production Engineering
Metallurgy and Materials	

2. Postgraduate Training Awards Committee

Chairman: Sir James Cook

Members:

Professor R. Brown	(Edinburgh (Botany))
Dr. D.G. Christopherson	(Durham (Vice-Chancellor))
Professor F.S. Dainton	(Leeds (Physical Chemistry))
Professor P.V. Danckwerts	(Cambridge (Chemical Engineering))
Professor G.C. Drew	(U.C. London (Psychology))
Professor Sir Willis Jackson	(Imperial College (Electrical Engineering))
Dr. Brynmor Jones	(Hull (Vice-Chancellor))
Professor Sir Ewart Jones	(Oxford (Inorganic Chemistry))
Dr. D.M.A. Leggett	(Battersea College of Technology (Principal))
Vice-Admiral Sir Frank Mason	
Professor P.B. Moon	(Birmingham (Physics))
Dr. J.H. Parry	(U.C. Swansea (Principal))

Professor I.N. Sneddon	(Glasgow (Mathematics))
Professor T.S. Westoll	(Newcastle upon Tyne (Geology))
Professor A.D. Young	(C.M.C. London (Aeronautical Engineering))

Assessors

Chairman of the University Grants Committee	Sir John Wolfenden
Representative of the Department of Education and Science	Mr. C. Freedman

Sub-Committees:

Biology and Biochemistry	Engineering
Chemical Engineering and Metallurgy	Geology
Chemistry	Human Sciences
Electrical Engineering	Mathematics
	Physics