

ISAAC NEWTON TRUST

ANNUAL REPORT

TO THE COUNCIL OF

TRINITY COLLEGE

COVERING THE PERIOD

14 MARCH 2007 – 4 MARCH 2008

VOLUME XVIII

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PATRON

H.R.H. the Prince of Wales

TRUSTEES

Professor Sir Tony Wrigley (*Chairman and Trustee, until 31 July 2007*)

Professor D T Fearon

Mrs A Lonsdale (*until 11 February 2008*)

Professor M S Neuberger

Professor S C Ogilvie

Professor A F Richard

Professor Lord Rees

Professor Q R D Skinner

Professor M R E Proctor

Professor N O Weiss (*Chairman from 1 August 2007*)

OFFICERS

Professor J M Rallison (Director)

Dr C T Morley (Treasurer)

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INTRODUCTION

This report to the Council covers the period from 14 March 2007 up to, and including, the Trustees' meeting on 4 March 2008. It lists for the period new research grants approved by the Trustees and developments in the main schemes of the Trust. The audited Trust accounts for the year ended 31 January 2008 are given as Appendix 1.

A full account of the Trust's activities in earlier years may be found in Annual Reports volumes I to XVII. A summary of grants made by the Trust over the last 10 years (July 1998 to March 2008) is given in this report as Appendix 2.

The Council of Trinity College appointed Professor Nigel Weiss as Chairman of Trustees with effect from 1 August 2007 in succession to Professor Sir Tony Wrigley. The Council expressed its deep appreciation of Sir Tony's long service as Trustee and Chairman.

Mrs Lonsdale completed her period of service as a Trustee in February 2008. The Trustees express their thanks to her for her period of service to the Trust. The appointment of Professor Simon Franklin as Trustee in succession to Mrs Lonsdale occurred shortly after the period covered by this report.

During the year the Council commissioned a review of the Trust chaired by Lord Oxburgh. The review took place in the summer of 2007 and it reported to the Council during the Michaelmas Term 2007.

The Trust maintains a website (www.newtontrust.cam.ac.uk) that gives up-to-date details of the Trust schemes. Those web pages that are concerned with the Cambridge Bursary Scheme (see page 19) are accessible to prospective applicants for undergraduate places from outside Cambridge. The remaining pages, including guidelines to applicants for grants, are accessible only from @cam addresses.

AIMS AND OBJECTIVES OF THE TRUST

To promote education, learning and research in the University of Cambridge.

FINANCIAL SUMMARY

General Fund

Following the Oxburgh Review, Trinity College agreed to increase its annual rolling donation to the Trust from £2m to £2.5m for the next five years. These donations are credited to the Trust's General Fund. Grants from the General Fund are made to specific research projects and also to recurrent Trust schemes. A summary of the grants made from the General Fund from 1988 up to 4 March 2008 is shown in Table 1 and in graphical form in Figure 1. A breakdown by Department of grants made in the last ten years is shown in the Yellow Table in Appendix 2. A comprehensive list of earlier grants is shown in the Trust's Annual Reports Volumes XIV to XVII.

The Trust has been found to be an attractive vehicle for some alumni donations as part of the University's 800th Anniversary Campaign. For this purpose the Trustees have established a (notional) 'Opportunities Fund'. Donations from alumni and others both to this Fund and for bursaries totalling £115,000 were received in 2007-08.

There was a reduction in the value of the Trust's investments during 2007-08 largely as a result of less good market conditions.

Trust expenditure on research grants continued at the normal level. There was a fall in expenditure on bursaries. This fall occurs largely for technical reasons having to do with the timing of bursary payments and will persist for three or four years until the new bursary scheme reaches its steady state.

The projections of future expenditure in Table 1 are speculative both as to amount and to timing. They include all the grants that the Trustees have approved, though experience suggests that some 20% of these grants will not, in the event, be taken up, either because circumstances change or else because the matching conditions have not been met.

Two projections of future expenditure are shown in Fig.1. Solid lines show the commitment projections of Table 1. Dotted lines show an extrapolation of present expenditure (averaged over the past 5 years including 4% inflation) to make allowance for possible future decisions of Trustees.

Administration Costs

Expenditure on Administration represents less than 4% of the Trust's turnover (including bursaries). A breakdown of Administration costs in 2007-08 is shown below.

Stipend of Director (including pension and National Insurance)	£46,728
Stipend of Treasurer (including pension and National Insurance)	£6,638
Other stipends (including pension and National Insurance)	£57,094
Office expenses	£8,787
Barings management fee for investments	£29,096
Audit fee	£1,762
Miscellaneous expenses	£2,405

Other Funds

The Trust also maintains a Bursaries Endowment Fund, discussed in the context of the Cambridge Bursary Scheme on page 19. This fund also provides a temporary home for the lump sum annual contribution to Bursaries made by the University.

In 2007-08 the Trustees accepted with gratitude a donation in excess of £1m from a Trinity alumnus specifically for the support of an Arts Management Course in the Judge Business School. The donor requested that this sum should remain ring-fenced, and the use of the donation (the Camtrust Fund) is described on page 31.

The final line of Table 1 shows for completeness the total sum under management by the Trust that is held in the Bursaries Endowment Fund and the Camtrust Fund as at 31 January of each year.

GENERAL FUND (£000's)
STATEMENT OF INCOME AND EXPENDITURE AS AT 4 MARCH 2008
Including decisions made at the March 2008 meeting

Year ended 31.1	Actual																			Projected (at 4% return)				
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Balance at start of year		5604	7173	7758	8796	10982	8946	10659	11784	12740	13133	14059	15191	13367	10328	11260	11822	14237	15247	15086	14133	14348	15263	16746
INCOME																								
Trinity College	5000	1000	1000	1000	1000	1000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2500	2500	2800	2500	2500	2500	2500
Other Donors: for bursaries*	10	0	2	15	21	19	28	41	81	113	44	317	280	327	312	262	177	213	181	255	193	128	107	107
Newton Bursaries Endowment Fund (formula transfer)*												161	223	164	139	170	191	226	294	230	230	230	230	230
Dividends, interest and IPR	606	873	834	876	663	575	660	712	623	640	626	616	549	490	393	428	402	466	445	603	565	574	611	670
Special Donations A, B and C**															95									
Other Donors: Opportunities Fund																	6	73	57					
TOTAL INCOME***	5616	1873	1836	1891	1684	1594	2688	2753	2704	2753	2670	3094	3052	2981	2939	2860	2776	3478	3479	3888	3488	3432	3447	3507
EXPENDITURE																								
Trust expenditure on Bursaries*		73	141	175	216	257	310	357	334	396	754	633	859	991	966	1053	1028	835	745	775	958	1085	1104	1128
CTO Schemes				47	76	98	125	130	128	80	149	148	148	146	139	117	107	117	117	160	160	160	160	160
Domestic Research Studentships										75	75	75	75	0	75	85	95	110	90	140	140	140	140	140
UK Research Students Scheme						9	50	56	46	47	104	117	107	118	125	140	91	51	12					
Time-Limited Fellowships Scheme													32	56	68	77	89	73	60	120	120	120	120	120
European Research Studentships Scheme (CET)												58	122	162	180	158	162	182	0	272	104	0	0	0
Community-related grants scheme												18	23	23	23	22	22	21	18	25	25	25	25	25
Other grants (mainly research)	19	276	1077	1224	1530	1385	1368	1358	1700	2356	1492	1144	1556	2148	1885	1758	1171	1623	1816	3189	1607	827	255	97
Administration	10	12	21	46	46	46	70	57	66	66	70	97	96	94	97	94	110	120	152	160	160	160	160	160
TOTAL EXPENDITURE***	29	361	1239	1445	1839	1773	1896	1953	2276	3068	2575	2291	3018	3740	3565	3526	2885	3122	3010	4841	3274	2517	1964	1830
Gain/Loss on investments	17	57	-12	592	2341	-1857	921	325	528	708	831	329	-1858	-2280	1558	1228	2524	654	-628	0	0	0	0	0
Balance at end of year	5604	7173	7758	8796	10982	8946	10659	11784	12740	13133	14059	15191	13367	10328	11260	11822	14237	15247	15086	14133	14348	15263	16746	18423

*For details see Cambridge Bursary Scheme (Bursaries Table)

**Net closing balances in Special Donations A, B and C. Remaining liabilities transferred to expenditure totals.

***Excluding top-up fee contribution to Bursary income/expenditure

Aggregate balance at end of year in Special Funds ^T	1615	4897	6512	6585	7043	6202	4222	4260	4778	5638	7097	8668	8298	8711	9066	9196	9356
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^T For detail of the Special Funds see the Bursaries Endowment Fund, the Camtrust Fund, and, before 2004, Grants A, B and C.

GENERAL FUND AS AT 4 MARCH 2008

Including decisions made at the March meeting

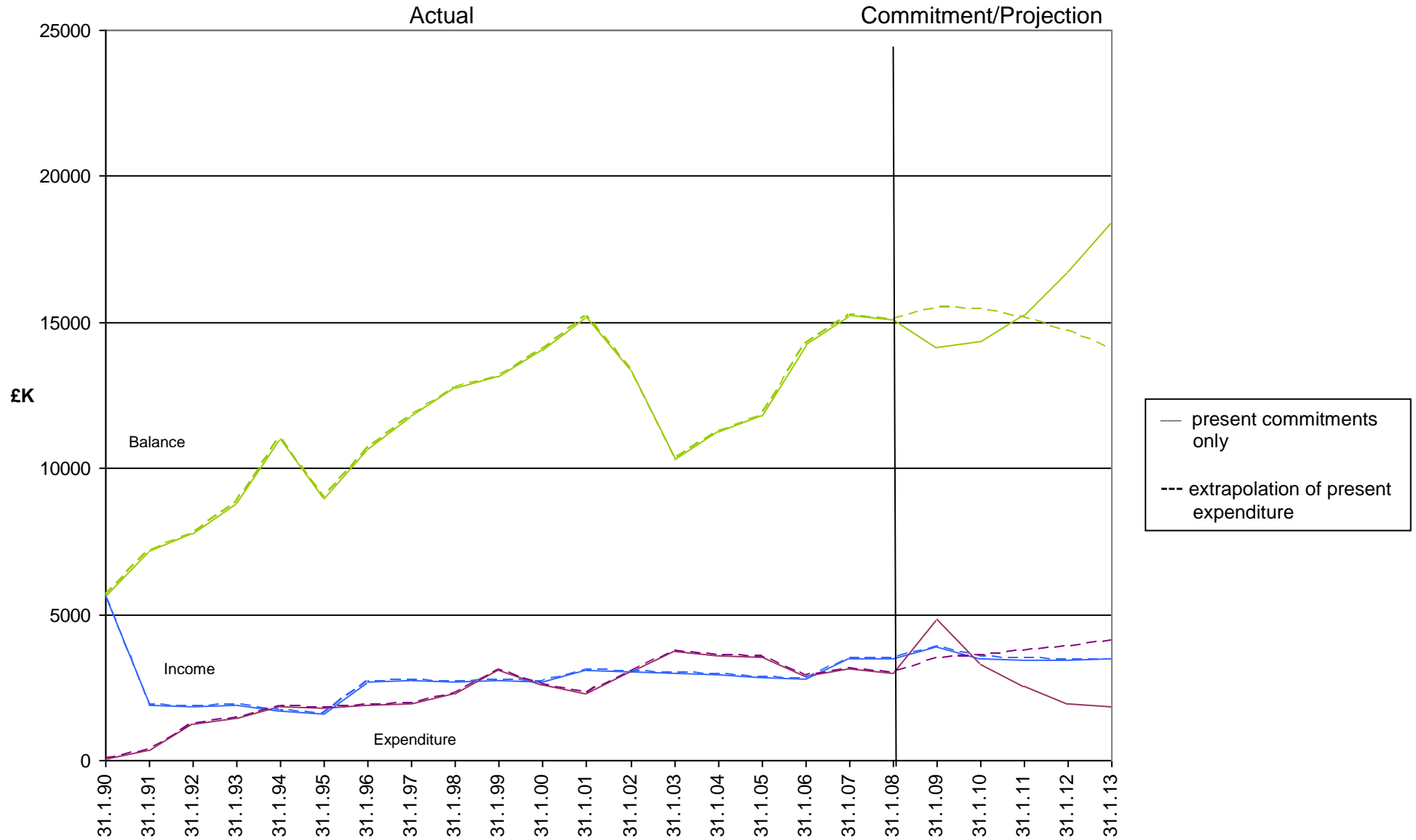


FIGURE 1

RESEARCH AND TEACHING GRANTS APPROVED 2007-2008

POLICY

The policy of the Trust in relation to Research and Teaching Grants is summarised in its Guidelines to Applicants. The key features of those Guidelines during 2007/2008 were as follows:

- *The Trustees realise that the funds at their disposal could soon be wholly absorbed in a few big projects. They believe they can best assist the University by focusing their help selectively on projects of various sizes which otherwise might not get started or be significantly delayed, particularly those where a grant from the Trustees can open up opportunities for additional funds from outside Cambridge. The Trust is able to move quite quickly and so help in enabling opportunities to be seized which otherwise might permanently be lost. In all cases the Trustees need to be satisfied that projects are of a high standard. They aim to assist with the funds at their disposal a wide range of projects in all disciplines from Departments and Faculties in all Schools of the University.*
- *Since one of the purposes of the Trust is to attract resources from outside, grants from the Trust are normally conditional upon raising from sources outside Cambridge at least twice the amount of the grant. The Trustees have agreed to vary or even set aside this condition for projects that they consider of particular importance where the prospects of obtaining such external funding are remote.*
- *When applications are made to Research Councils in a routine way, the Trust will expect applicants to apply to the Councils for the full amount of the funds that they require, including the associated Full Economic Costs. If a particular application is not wholly successful, the Trustees may be willing to consider an application for a top-up grant from the Newton Trust for a new initiative or project they regard as particularly important; and may allow the partial grant from the Research Council to be regarded as matching funds; but they do not guarantee to do so.*
- *The Trustees are persuaded that their most effective contribution is to help attract talented persons to Cambridge and to maintain the University's reputation as a centre of excellence in research. Thus the aim of the Additional Appointments Scheme (by which grants are made of up to £18,500 per annum for no more than 3 years, subject to matching amounts being raised from outside sources) is to provide limited-tenure research posts, perhaps involving a small amount of teaching, for academics early in their career.*
- *The Trust does not normally contribute towards the costs of pre-doctoral students because PhD studentships are available from Research Councils, from the Cambridge Commonwealth, European, Overseas, and Gates Trusts, and from the Domestic Research Studentships competition organised by the Board of Graduate Studies.*
- *The Trustees do not in their own right seek funds from outside (the only exception being the Cambridge Bursary Scheme). It is therefore the responsibility of recipients of grants to raise the additional monies which are a condition of their grants from the Trust.*

- *The Trustees do not give priority to grants for equipment and in particular do not normally support requests for replacement of standard items. However, they have made modest provision for equipment grants and will give priority to requests for new equipment for teaching or new equipment which has multiple use. Such grants will normally be for no more than one-third of the total cost. The Trustees do not normally entertain requests for “bricks and mortar” projects.*

More detailed Guidelines, intended to assist prospective applicants, can be found on the Trust’s website at www.newtontrust.cam.ac.uk.

APPLICATIONS

In 2007-08 the Trust received a total of 84 new applications for support (a new record number; there were 71 in 2006-07). The total cost of supporting these applications in full would have been £4.8m. In the event, 63 applications were supported at a total cost of £3m (many grants being made at a lower level than had been requested). Twenty-one applications were rejected.

In addition, the Trust invited applications from Departments in the Arts, Humanities and Social Sciences for matching support for post-docs seeking 2-year or 3-year Early Career Fellowships from the Leverhulme Foundation. Some 30 applications were received and the Trust agreed to underwrite 13 of them in the expectation that no more than 10 would be successful in the Leverhulme competition. A summary of those whom the Trust agreed to support is given on page 17.

GRANTS AWARDED

The following grants (totalling £3 million) were approved by the Trustees during the report period. They are listed alphabetically by Department. The amounts of individual grants may be found in Appendix 2 (Yellow Table). If the matching requirement associated with each grant is achieved, the total matching sum associated with these grants will be £2.8 million. In some instances this matching sum would no doubt have come to Cambridge anyway; in others it has been elicited by the Newton Trust grant.

African Studies, Centre of: a strategic grant over 5 years towards travel, stipends, living expenses and associated costs of two Visiting Fellows per year for 5 years as part of a project which aims to build up intra-African networks of intellectual exchange, entitled the ‘Cambridge/Africa Collaborative Research Programme’. (Applicant: Dr Derek Peterson)

Applied Mathematics and Theoretical Physics: A grant over 18 months towards the salaries of Dr Christof Sparber and Dr Kelens Fellner to work as post-docs under the supervision of Professor Peter Markowich on a project entitled, ‘Nonlinear partial differential equations’ (Applicant: Professor Peter Haynes, Head of Department)

Applied Mathematics and Theoretical Physics (Millenium Mathematics Project): A strategic grant over 4 years for ‘NRICH’, an outreach initiative to provide Mathematics enrichment material for ages 5 to 19. The grant will support the salaries of a Primary Maths Coordinator, a Secondary Teaching Associate and an Administrator. (Applicant: Professor John Barrow)

Applied Mathematics and Theoretical Physics: A grant over one year towards the salary of Dr Hayder Salman to work as a postdoctoral Research Associate under the supervision of Dr Natalia Berloff on a project entitled, 'Trapped Bose Gases at Finite Temperature', together with a grant towards equipment costs.

Archaeology: A grant over 3 years in the form of underwriting towards transport and fieldwork costs, equipment, research and clerical support to be used under the direction of Dr Cameron Petrie on a project entitled 'The cultural and geographical transformation of northwest India between 2000 and 300 BC', which investigates the relationship between the environment and human settlement in northwest India with the aim of understanding the collapse of the Bronze Age Harappan Civilisation and the rise of Early Historic cities 1000 years later.

Archaeology (McDonald Institute for Archaeological Research): A grant over 5 months towards the salary of Mr Kamal Ali-Merkhbi to work as a Research Associate under the supervision of Dr Mim Bower on a project entitled, 'Can the ethnography of isolated populations of horse herders in central and east Asia inform us of contemporary and past human-horse relationships?' which assesses and links contemporary variations in forms of horse herding and pastoralism with genetic data from living, recent and archaeological horse populations.

Archaeology (McDonald Institute for Archaeological Research): A grant over 1 year towards the cost of equipment and analytical services for use by Dr Alison Blyth on a project entitled, 'A new approach to detecting past climate change and its impact on terrestrial ecosystems'.

Architecture: A grant over 3 years towards the creation of a new programme of three-year part-time Design teaching fellowships for promising young architects to contribute to the practical teaching of Architecture through supervision of student design projects, and thereby to develop their careers. The programme is entitled, 'Isaac Newton Design Teaching Fellowships'. (Applicant: Professor Marcial Echenique, Head of Department)

Asian and Middle Eastern Studies: A grant in the form of underwriting over 5 years towards the salary of a University Lecturer in Korean Studies, matching a major grant in support of the same project made by The Korea Foundation. (Applicant: Professor Hans van de Ven)

Asian and Middle Eastern Studies: A grant over one year towards the salary of Ms Alinda Damsma to work as a post-doctoral Research Associate under the supervision of Professor Geoffrey Khan on a project entitled, 'The lexicon of North Eastern Neo-Aramaic', which aims systematically to document the highly endangered dialects which are among the last spoken vestiges of Aramaic - until the early Middle Ages a major language of the Middle East.

Biochemistry: A grant towards the salary of Mr Swanand Gore to work under the supervision of Professor Sir Tom Blundell as a post-doctoral Fellow on a project entitled, 'Knowledge-based conformational sampling for macromolecular crystallography'.

Biochemistry: A grant towards the salary costs of Mr Xiaolan Yu and Mr Zhinong Zhang to work as Technicians under the supervision of Dr Paul Dupree on a project entitled, 'Plant polysaccharides for biofuels', which aims to facilitate the development of commercially viable biorefineries.

Brain Repair, Centre for: A grant over two years towards the salary of Dr Alison Canty to work as a Research Associate under the supervision of Professor Olivier Raineteau on a project entitled, 'Dynamics of dendritic spines and the development of plasticity-inducing treatments for spinal cord injury'.

Chemical Engineering: A grant over 3 years towards the cost of equipment for use by Dr G Day and Dr A Zeitler under the supervision of Professor Lynn Gladden on a project 'Development and validation of computational methods for understanding far infrared vibrational spectra of organic molecular crystals'.

Chemistry: A grant towards the salary of a post-doctoral Research Associate to work under the supervision of Dr Rachel O'Reilly on a project entitled, 'Synthesis of chiral functional polymer nanoparticles'.

Earth Sciences: A grant over 2 years from the Opportunities Fund to support Dr Helena Evans as a postdoctoral Research Associate to work under the supervision of Dr Luke Skinner on a project entitled, 'Ocean circulation, carbon cycling and global climate change', which aims investigate the links between ocean circulation, deep-sea carbon sequestration and climate change over the last 35,000 years.

Engineering: A grant over 2 years towards the salary of Dr Alex Rozhin as a Research Associate to work under the supervision of Dr Andrea Ferrari on a project entitled, 'Nanotubes for polymer optoelectronics' which aims to develop a new range of optoelectronics devices; together with a grant towards basic optical equipment.

Engineering: A strategic grant to create a University Lectureship in Engineering for Clinical Practice, with a remit to conduct translational research and foster links between the Department of Engineering and the clinical needs of Addenbrooke's Hospital. The grant matches a major award in support of the project made by The Evelyn Trust and a private donor. (Applicant: Dr Richard Prager)

Engineering: A grant over two years towards the salary of a post-doctoral Research Associate to work under the supervision of Dr Vikram Deshpande on a project entitled, 'Blast induced trauma and the mechano-biology of cells and tissues', which aims to develop high fidelity mathematical simulations of blast overpressure effects on cells and tissues.

English and Applied Linguistics, Research Centre for: A grant over 4 months for the salary of Ms Nafsika Smith to work as a Research Assistant under the supervision of Dr Napoleon Katsos on a project entitled, 'Does low language level affect the pragmatic skills of children with autistic spectrum disorders?'. The project investigates whether language difficulties of children with autistic spectrum disorders are caused by or symptomatic of such disorders.

English and Applied Linguistics, Research Centre for: A grant towards the purchase of a Tobii eye-tracker, an essential piece of equipment for the study of eye movements in applied linguistics and psycholinguistics. (Applicant: Dr Henriëtte Hendriks, Head of Department)

Experimental Psychology: A grant towards the salary and costs of Dr Anna Shestakova to work under the supervision of Professor Lorraine Tyler on a project entitled, 'From perception to conception: The temporal dynamics of object processing', together with a grant for consumables. The project aims to understand how meaningful objects are processed in the brain by revealing the neural mechanisms that govern object processing.

Fitzwilliam Museum: A grant over 3 years towards the salary of a post-doctoral Research Associate to work as a Paper Conservator under the direction of Dr Timothy Potts on the conservation of Prints and Drawings and to receive vital professional knowledge and transfer of skills and expertise from the present postholder before his retirement in 2009.

Genetics: A grant over 16 months towards the salary of Dr David Osumi-Sutherland to work as a Research Associate under the supervision of Professor Michael Ashburner on a project entitled, 'Standardising the representation of Drosophila anatomy and development for databases'.

Genetics: A grant from the Opportunities Fund towards the cost of a deconvolution microscope of use by Dr Viji Draviam under the direction of Dr David Summers on a project entitled, 'Genes behind the maintenance of correct chromosome numbers', which aims to identify genes that ensure the maintenance of correct chromosome numbers in human cells.

Genetics: A grant from the Opportunities Fund towards a new imaging facility for use by Dr Catherine Lindon under the direction of Dr David Summers on a project entitled, 'Analysis of cell division by time-lapse microscopy'.

Geography: A grant over 1 year towards the research costs of Dr Emma Mawdsley (applicant), Dr Elizabeth Watson and Dr Bhaskar Vira on a project entitled, 'The changing geographies of power and development: contemporary Indian-East Africa relations', in which the changes brought about by economic, social and political shifts in the Indian economy will be explored.

Gurdon Institute: A grant over 6 months towards the salary of Dr Bernhard Strauss to work as a Research Associate under the supervision of Dr Jonathan Pines on a project entitled, 'Investigating the role of cyclin B1 in early cell divisions', in which development of fertilised mouse eggs is observed in order to investigate the control of early cell division in mammals.

Gurdon Institute: A grant towards the salary of Dr Suzan Ber to work for up to one year as a Research Associate under the direction of Professor Azim Surani on a project entitled, 'The establishment of Primordial Germ Cells (PGCs) from pluripotent stem cells'.

Gurdon Institute: A grant over 2 years as a contribution towards the salary of Dr Isabel Latorre as a Research Associate to work under the supervision of Dr Julie Ahringer on a project entitled, 'Regulation of chromatin structure in *C. elegans*'.

Haematology: A grant over 7 months towards the salary of Mr Zhenquan Wei to work as a Technician under the direction of Dr Aiwu Zhou and Professor Robin Carrell on a project entitled, 'Mechanisms for the carriage and release of hormones in the blood'.

History and Philosophy of Science (Whipple Museum): A grant over 3 years towards the salary of Dr Torben Rees to work as a Research Fellow under the direction of Dr Liba Taub on a project entitled, 'The Science of Musical Sound', together with a grant for equipment. The project investigates the complex historical interactions between science and music and aims to share the work with academics and the broader public.

History and Economics, Centre for: A strategic grant towards salaries and costs of the Cambridge component of the new Joint Centre for History and Economics to be established at Cambridge and Harvard over the period 2007-2012. (Applicant: Dr Emma Rothschild, Co-Director)

Kettle's Yard: A grant over 3 years to appoint 'Curator Fellowships' to develop two strands of exhibition and associated programming, exploring the arts of modern times, and relationships between artistic and scientific investigation. (Applicant: Mr Michael Harrison, Director)

Lucy Cavendish College: A grant over 2 years from the Opportunities Fund towards the salary of Dr Erica Bithell to work as a Research Fellow in the Department of Materials Science and Metallurgy on a project entitled, 'Identification of pharmaceutical polymorphs by precession electron diffraction' under the direction of Professor Lindsay Greer. The project aims to determine the structures of the crystalline forms of large organic molecules, and to develop a protocol for the future.

Materials Science and Metallurgy: A grant towards the purchase of a high sensitivity capacitance bridge to complete a new magnetostriction facility for use by Mr Alexander Barcza under the supervision of Dr Karl Sandeman on a project entitled, 'Towards magnetic refrigeration: magnetostriction in Co-Mn-Si'.

Medical Genetics: A grant over 18 months towards research costs for a project entitled, 'The genetic basis of primary biliary cirrhosis'. (Applicant: Dr Richard Sandford).

Modern and Medieval Languages (Spanish and Portuguese): A grant over 3 years towards the salary of Dr Arantza Mayo to work as a Senior Research Fellow under the supervision of Dr Rodrigo Cacho on a project entitled, 'Golden Age Poetry: Parody and Devotion', together with a grant for equipment. The project aims to offer a more accurate and comprehensive picture of the period's literature and culture, both secular and sacred.

Pathology: A grant over 2 years towards the salary of a post-doc to work with Dr Mar Valés-Gómez on a project entitled, 'Influence of the viral protein UL16 on the shedding of MICB'.

Pathology: A grant towards the purchase of an automated fluorescence microscope for use by Dr Richard Hayward and others under the direction of Professor Vassilis Koronakis on a project entitled, 'New methodology to decipher cellular signalling pathways between membrane-associated protein complexes and the cytoskeleton'.

Pathology: A grant over one year in part support of the salary of Dr Jennifer Phillips as a Senior post-doctoral Researcher to work under the supervision of Professor Anne Cooke on a project entitled, 'Analysing the basis for the effect of infection with *S typhimurium* on Type 1 diabetes', which will investigate the underlying mechanisms leading to the prevention of Diabetes.

Pathology: A grant from the Opportunities Fund over 2 years towards the salary of Dr Anabel Prieto as a post-doctoral Research Fellow to work under the direction of Dr Gillian Fraser on a project entitled, 'Regulatory networks for bacterial differentiation and multicellular behaviour', which will investigate swarming behaviour in bacterial populations.

Physics: A grant over two years in the form of underwriting towards the salary of a post-doctoral Research Associate to work under the supervision of Professor James Stirling, newly appointed Jacksonian Professor of Natural Philosophy, on a project entitled, 'Phenomenological Studies at the Large Hadron Collider' (Applicant: Professor Bryan Webber)

Physics: A grant over 2 years as a contribution to the salary of Dr James Mixon as a senior post-doc, and as a contribution to the salary of an unnamed junior post-doc to work under the supervision of Professor J A C Bland on a project entitled, 'Massively-multiplexing molecular diagnostics based on biomagnetism (BIOMAG)'.

Physics: A strategic grant towards the purchase of an inverted laser-scanning confocal microscope and an atomic-force microscope for biological and soft samples, to support the research of Dr Pietro Cicuta and Dr Jochen Guck under the direction of Professor Peter Littlewood. The equipment will form part of a new state-of-the-art biophysical imaging facility, with the aim of conducting strategic research in the field of cell and molecular biophysics with medical relevance.

Physiology, Development and Neuroscience: A grant from the Opportunities Fund over 2 years towards the salary of Dr Murray Hargrave to work as a postdoctoral Research Associate under the supervision of Dr Kate Lewis on a project entitled, 'Specification of circumferential ascending interneurons in zebrafish spinal cord', which investigates how zebrafish spinal cord nerve cells are developed. (Applicant: Dr William Harris, Head of Department)

Physiology, Development & Neuroscience: A grant over two months for the salary of Ms Shona Brothwell to work as a post-doctoral Research Associate under the supervision of Dr Susan Jones on a project entitled, 'Investigating the neuroprotective potential of NMDA receptor antagonists against excitotoxic and neurotoxin-induced death of substantia nigra *pars compacta* dopaminergic neurones', together with a grant for confocal microscopy costs and consumables.

Plant Sciences: A grant over 8 months as a contribution to the salary of Katy Coxon as a postdoctoral Research Assistant to work under the supervision of Dr Julia Davies on a project entitled, 'Calcium channel formation by plant annexins'.

Plant Sciences: A grant over 2 years towards the cost of consumables for a laser capture microscope for use by Dr Julian Hibberd on a project entitled, 'Mechanisms underlying the convergent evolution of C₄ photosynthesis' which aims to provide insights into the function and evolution of this photosynthesis pathway.

Plant Sciences: A grant over two years towards the salary of Dr Alex Murphy to work as a Senior Research Associate under the supervision of Dr John Carr on a project entitled, 'Subversion of insect resistance – a novel role for a plant viral silencing suppressor' which will investigate increased insecticide resistance in aphids, with the aim of generating urgently required data for development of new crop protection methods.

Plant Sciences: A grant from the Opportunities Fund over two years towards consumables and facilities charges at the John Innes Centre, Norwich for the research of Dr Ruben Alvarez, working under the supervision of Dr Beverley Glover as a post-doctoral Research Fellow on a project entitled, 'The evolution of insect-attracting petal surfaces' in which the loss of petal cells in some leguminous species will be investigated.

Politics: A grant over 1 year towards the salary of Dr Philip Parvin as a Leverhulme Trust Early Career Research Fellow, whose project is entitled, 'Political engagement, egalitarianism and democracy'. (Applicant: Dr Helen Thompson, Head of Department)

Politics: A grant over 2 years towards the salary of Dr Fiorella Dell'Olio to work under the direction of Professor Andrew Gamble on a project entitled, 'Framing immigration in Britain'.

Pure Mathematics and Mathematical Statistics: A strategic grant over 5 years towards the salaries of two 3-year post-doctoral Research Associates to work under the direction of Professor Philip Dawid on a project entitled, 'Cambridge Statistics Initiative: Building Bridges', which aims to create a critical mass of researchers in statistics, with strong links to application areas, and to make Cambridge a world-leading centre of innovative and influential statistical research.

Social Anthropology: A grant over 3 years towards the salary of Dr Gregory Delaplace to work under the supervision of Dr David Sneath as a post-doctoral researcher on a project entitled, 'The place of the dead as 'invisible things' in contemporary Mongolia'. The project investigates the ways in which Mongolians relate to the dead in terms of practices and memorialisation.

Social Anthropology: A grant over 3 years as a contribution to the stipend of Senior Research Associate, Dr Monica Konrad to work under the direction of Professor Dame Marilyn Strathern on a project entitled, 'PLACEB-O and Collaborative Anthropology: International science and bioethics collaborations (phase 1: 2007-2010)'. The project addresses social, economic and cultural issues of international collaboration, knowledge transfer and capacity building.

Surgery: An interest-free loan repayable over a 5-year period towards the cost of a high speed flow cytometer for use by Professor Roger Pedersen on a project entitled, 'Centre for Regenerative Medicine Stem Cell Sorting Resource'. The instrument will aid investigation into how human stem cells can be directed into specialised progeny with potential therapeutic uses.

University Library (on behalf also of the Faculty of Divinity and Faculty of Asian and Middle Eastern Studies): A grant over 5 years towards the salary of Dr James Coakley as a Temporary Manuscripts Specialist/Affiliated Lecturer'. Dr Coakley will catalogue the Stanley Morison papers and Rampant Lions press archive. (Applicant: Mr Peter K Fox, University Librarian).

Veterinary Medicine: A grant over 9 months towards the salary of Mr Subhajt Biswas as a post-doctoral Research Associate to work under the supervision of Dr Hugh Field on a project that aims to understand the fundamental biology of herpes viruses and to investigate associated drug resistance, entitled 'In-depth study of drug resistance to helicase-primase inhibitors in clinical isolates of herpes simplex virus'.

Veterinary Medicine: A grant in the form of underwriting towards the cost of a complete patch-clamp electrophysiological rig for red cell work (microscope, amplifier and software, pipette puller, air table, Faraday cage, manipulators) for use by Dr John Gibson on a project entitled, 'Investigating the abnormal conductance of sickle cells'.

Zoology: A grant over 2 years in the form of underwriting as a contribution towards the salary of Dr Claire Spottiswoode to work as a Research Associate under the supervision of Professor Nicholas Davies on a project entitled, 'The evolution of intraspecific polymorphisms in host-parasite arms races'. The research aims to model the evolutionary dynamics of egg polymorphisms as a defence against parasitism.

Zoology: A grant over 6 months towards the salary of Stephanie Bunt to work under the supervision of Dr Helen Skaer as a post-doctoral Research Associate on a project entitled, 'Genetic analysis of tubulogenesis in *Drosophila*', together with a contribution towards technical support for the project.

Zoology: A grant over 7 months towards the salary of Dr Marta Vicente Crespo to work as a postdoctoral researcher under the supervision of Dr Isabel Palacios de Castro on a project entitled, 'Function and mechanism of RNA stability and RNA localisation in *drosophila melanogaster*', together with a grant for essential consumables.

LEVERHULME EARLY CAREER FELLOWSHIPS

The Trust agreed to provide matching support over two years or three years for any of those candidates on the following list successful in the Leverhulme competition during 2008:

Department	Applicant
ASNC	Woodman, D
Biological Anthropology	Goto, R
Centre for Family Research	Ensor, R.
Divinity	Cogliati, C
English	Nall, C
History	Armenteros, C
History	Nutt, T
History	Strathern, A
History	Watson, A
McDonald Institute	Stevens, R.
MML (Linguistics)	Filipovic, L
Music	Varwig, B
SPS (Sociology)	Kanji, S.

RECURRENT TRUST SCHEMES

THE CAMBRIDGE BURSARY SCHEME

Aims and objectives

The scheme of Newton Trust Bursaries for UK Undergraduates was set up in 1990 in response to the progressive phasing out of student grants, the introduction of student loans and later of tuition fees. The main purpose of the scheme is to help attract the best candidates to Cambridge and to widen the field from which they are drawn, through support for students from disadvantaged backgrounds and from families with modest financial resources.

The Trust is presently running two versions of the scheme in parallel as described below.

Financial summary

The Trust has received three Special Donations from Trinity College towards the endowment of the Bursary scheme. These donations have been credited to the Bursaries Endowment Fund shown in Table 2(b). In addition the scheme has been supported on a recurrent basis by several sponsors. The Trustees are also grateful for a number of contributions to the scheme from Cambridge alumni (both from Trinity and other Colleges) made as part of the 800th Anniversary campaign. From 2006 onwards a significant part of the cost of bursaries for the Current Scheme (see below) is being met by the University as a contribution from top-up fees. This 'top-up fee contribution' is accounted for separately in Table 2(c). The remaining costs of the scheme are met by a transfer from the General Fund as shown in Table 2(a).

Policy (Old System)

The Trustees agreed in 1999 to offer a guarantee that any student in receipt of full LEA fee remission (i.e. with a parental income of less than about £20,000) would receive a full bursary of £1,000, with a sliding scale for students who qualify on the basis of their parental income for a lower level of fee remission.

The cost of these awards is borne in part by Colleges, broadly in line with their endowment income per capita. Levels of contribution are shown in Table 3. Gonville and Caius, St John's, and Trinity Colleges pay the cost of awards for their own students.

A long-term evaluation of the bursary scheme, funded over ten years by Atlantic Philanthropies, is being carried out by the University's School of Education.

The scheme of bursaries is advertised on the Trust's web-site, in the University prospectus and in advertising sent to schools. This material includes a guarantee that any student who qualifies for full fee remission will also be awarded a full bursary.

The Trustees and Colleges have agreed to maintain the old system bursary scheme substantially unchanged for every student presently in residence. It will progressively wither on the vine as new generations of students are admitted under the new system of tuition fees from 2006.

CAMBRIDGE BURSARY SCHEME (£000's)**(a) Receipts and Expenditure account (actual and estimated)***Shaded items are donations mediated by CUDO.*

Year ended 31.1	Actual																		Projected				
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Newton Bursaries Endowment Fund (formula transfer)											161	223	164	139	170	191	226	294	230	230	230	230	230
Atlantic Philanthropies											200	200	200	200	133	67							
Evaluation (paid by Atlantic Philanthropies)												43	21	40	20	30	36	32	37	38			
Clifford Chance		2	8	10	10	14	1	37	18	18	25	0	69	35	35	35	35	35	35	35	35	35	35
Hinduja Foundation			7	8	9	11	15	14	30	0	15	15	15	15	30	0	15	15	15	15	15	15	15
Mitsubishi Corporation			3	0	2	0	3																
Eagle Star						25	25	25	25														
Armourers and Braziers Gauntlet Trust						1	1	1	1	1	1	2	2	2	4	2	0	2	2	2	2	2	2
Malaysian Commonwealth Bursaries									40	0	20	20	20	20	40	0	20	20	20	20	20	20	20
Thermo Fisher Scientific																3	6	9	12	12	12	12	12
Lovells																40							
Carpenters Company																		3	3	3	3	3	3
Caterpillar Foundation																		8	6	6	0	0	0
Man Group																		21	0	105	42	21	0
Other private donors (via CUDO)																		77	16	20	20	20	20
Other private donors																		3	41				
Voluntary contribution from Colleges (for 00-01) ¹											55												
General Fund (net cost)	73	139	160	195	238	282	315	254	282	710	156	356	500	515	621	832	396	335	290	535	727	767	791
TRUST EXPENDITURE ON BURSARIES (including Bursary Compensation Payments)	73	141	175	216	257	310	357	334	396	754	633	859	991	966	1053	1028	835	745	775	958	1085	1104	1128
College contributions ^{2,3}											180	220	250	239	258	230	190	110	35				
Trinity, Caius and St John's (own schemes - estimated) ³	20	35	45	50	60	90	90	90	100	140	140	200	240	260	275	275	195	115	35				
College contribution required ⁴																		42	158	420	605	690	736
Top-up fee contribution (via Endowment Fund) ⁴																		318	1190	3150	4538	5175	5520
TOTAL EXPENDITURE ON BURSARIES³	93	176	220	266	317	400	447	424	496	894	953	1279	1481	1465	1586	1533	1154	726	215	50	50	0	0
TOTAL EXPENDITURE ON BURSARIES⁴																		424	1586	4200	6050	6900	7360
Bursary Compensation Payment ⁴																			120	240	250	250	250

¹These voluntary contributions made in 2000-2001 relate to bursaries paid in 1999-2000.²These totals are the formula amounts that Colleges have agreed to contribute to their own students as part of the (old) Scheme.³Old scheme⁴Current scheme

(b) Newton Bursaries Endowment Fund

Year ended 31.1	Actual																	Projected (at 4% return)						
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Balance at start of year										2078	3211	4461	4097	3486	4260	4778	5638	7097	7508	8298	8711	9066	9196	
Donations										2000	1000	1205	200	200	200	133	110	97	25					
Trinity College																								
Atlantic Philanthropies ⁵										67	-67													
Cambridge Society											5													
Received from University of Cambridge																		1350	1920	3940	4950	5530	5650	5800
Dividends and interest									45	115	153	147	142	139	171	166	183	201	230	230	230	230	230	
Gain/Loss on investments									33	-49	115	-488	-789	567	384	775	373	-251						
Formula transfer to Receipts and Expenditure account (4%)										0	-161	-223	-164	-139	-170	-191	-226	-294	-230	-230	-230	-230	-230	
Receipts and Expenditure account (Top-Up Fee contribution)																		-318	-1190	-3150	-4538	-5175	-5520	-5640
Balance at end of year										2078	3211	4461	4097	3486	4260	4778	5638	7097	7508	8298	8711	9066	9196	9356

Detail for Top-Up Fee Contribution

Year ended 31.1	Actual																	Projected						
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	
Balance at start of year																		0	1032	1762	2552	2965	3320	3450
Received from University of Cambridge																		1350	1920	3940	4950	5530	5650	5800
Receipts and Expenditure account (Top-Up Fee contribution)																		-318	-1190	-3150	-4538	-5175	-5520	-5640
Balance at end of year ⁶																		1032	1762	2552	2965	3320	3450	3610

⁵67 from Atlantic Philanthropies credited to Newton Bursaries Endowment Fund 1999/2000; but was intended to be spent, so transferred to Receipts and Expenditure account 2000/2001.

⁶The balance shown at the end of January each year is expected to be spent (for the purposes of the Cambridge Bursary Scheme) before the end of the corresponding academic year. The balance is held temporarily in the Bursaries Endowment Account.

Policy (Current System)

Under the Higher Education Act (2004), Universities are permitted to charge so-called top-up fees on condition that they have a bursary scheme in place which guarantees minimum bursaries to UK students from the poorest families. These arrangements are policed by a regulator, the Office for Fair Access (OFFA). Cambridge charged the maximum top-up fee permitted from 2006, and the University and Colleges asked the Trust to administer an expanded bursary scheme in fulfilment of the OFFA requirement. This involves a substantial increase in bursary amounts, well in excess of the minimum required, and also a widening of the categories of student who receive bursaries. The cost of the bursary scheme increased substantially and will continue to rise as successive cohorts of students fall under the new fee arrangements, increasing to a steady state of about £6 million per annum by 2011. This increased cost is met by the University. During 2007-08 a more formal Memorandum of Understanding relating to the administration of the Bursary Scheme was agreed between the Trust and the University.

Fundraising for bursaries is a major part of the University's 800th Anniversary Campaign. Several Colleges are using student support as a major plank in their fundraising, some with notable success. With the agreement of all parties involved, an arrangement has been worked out whereby Colleges that are particularly successful in their fundraising for bursaries can meet a higher-than-normal share of the cost and they will then be reimbursed by the Trust. These are the 'Bursary Compensation Payments' shown in Table 2(a).

In the summer of 2007 the Government announced new grant scales for the 2008 cohort of students from England extending to a parental income of £60,000. After discussion with the University and Colleges the Trust has agreed to make a corresponding change to the scheme from 2008-09 so that a wider category of student will benefit.

Results of the 2007-08 Bursary allocation (Old Scheme)

All eligible applicants were awarded a bursary on a sliding scale up to £1,000 thereby meeting the Trust's guarantee. The number of awards made by the Trust (additional to the parallel schemes in Trinity, St John's and Gonville and Caius Colleges) is given below:

- a total of **670** bursaries were awarded at a total cost so far of about **£492,000**;
- the cost to the Trust net of College contributions is about **£367,000**
- of the total **694** applications for bursaries (new and renewals), **24** were deemed ineligible to receive support;
- **75** of these awards remain to be settled upon receipt by the Trust of students' LEA assessments.

Numbers and estimated total costs of awards by College are shown in Table 3.

Table 3
Cambridge Bursary Scheme: Old Scheme 2007-08

<i>College</i>	<i>No of awards</i>	<i>Total cost of awards £k</i>	<i>% of Total Cost paid by College</i>
Christ's College	16	11	25
Churchill College	24	18	12.5
Clare College	26	11	25
Corpus Christi College	20	16	25
Downing College	20	15	6.25
Emmanuel College	24	21	50
Fitzwilliam College	35	27	6.25
Girton College	32	24	12.5
Homerton College	63	50	6.25
Hughes Hall	4	3	6.25
Jesus College	26	18	25
King's College	41	31	50
Lucy Cavendish College	8	7	6.25
Magdalene College	23	18	12.5
New Hall	44	31	6.25
Newnham College	37	29	25
Pembroke College	34	25	12.5
Peterhouse	16	14	50
Queens' College	34	19	6.25
Robinson College	26	17	12.5
Selwyn College	33	25	12.5
Sidney Sussex College	21	15	25
St Catharine's College	22	15	12.5
St Edmund's College	17	13	6.25
Trinity Hall	22	17	25
Wolfson College	2	2	6.25
Total	670	492	

Results of the 2007-08 Bursary allocation (Current Scheme)

All eligible applicants were awarded a bursary on a sliding scale up to £3,100 as specified in Cambridge's OFFA agreement. Some 35 students met the criteria (being over 21 when they started their undergraduate course and resident in Cambridge throughout the year) for a higher tier bursary of up to £5,150. The number of awards made is given below:

- a total of **1,213** bursaries were awarded at a total cost (up to March) of about **£1.93m**;
- the cost net of College contributions is about **£1.74m**;
- the total required College contributions to these bursaries was £199,000, 10.3% of the total cost;
- of the total **1,259** applications for bursaries, **46** were deemed ineligible to receive support;
- **326** of these awards remain to be settled upon receipt by the Trust of students' LEA assessments.

Current Scheme awards are paid in two instalments.

Numbers and estimated total costs of bursaries by College are shown in the attached Table 4.

Eleven Colleges, (Churchill, Clare, Corpus Christi, Downing, Girton, Jesus, Magdalene, Queens', St John's, Selwyn and Sidney Sussex) took advantage of the Bursary Compensation Payment arrangement by meeting more than the required cost of their bursaries with contributions from their alumni. Bursary Compensation Payments totalling about £240,000 are to be made in July 2008.

Collaborators

Atlantic Philanthropies continue to fund the evaluation of the Bursary Scheme carried out by the University's School of Education.

Armourers and Brasiers: Two recipients of Armourers and Brasiers awards were identified and the recipients notified.

Carpenters: The Carpenters Company agreed to support a bursary for a student reading Architecture. The second Carpenters Company bursary has been awarded.

Caterpillar: The Caterpillar Foundation agreed to increase its bursary support for students reading Engineering from four to six per year. Six first-year students of Mechanical Engineering were identified and the recipients notified.

City and University of Cambridge Masonic Charitable Trust agreed in 2006-07 to support a three-year bursary for a student from the lowest level of income. The second year of the bursary has been awarded.

Clifford Chance: Clifford Chance continue to make a contribution to the bursary scheme at a level of £35,000 per annum and these figures have been included in the projections.

Lovells: Fourteen bursaries ongoing from 2005-06 were awarded to third-year Law students.

Man Group: The Man Group plc agreed to support seven 3-year bursaries for students taking courses in mathematical disciplines. In 2007-08 three-year bursaries were awarded to first-year students of Mathematics, Computer Science, Economics and Engineering.

Thermo Fisher Scientific agreed to sponsor two bursaries of £6,000 over four years (£1,500 per year) to Natural Sciences students. A cheque for £12,000 for the fourth year has been received from the Company and a further two bursaries were awarded.

Dharam Hinduja Newton Bursaries and Malaysian Commonwealth Studies Bursaries were awarded as usual. Contributions from the sponsors, £15,000 and £20,000 respectively, were received.

Table 4
Cambridge Bursary Scheme: Current Scheme 2007-08

<i>College</i>	<i>No of awards</i>	<i>Total cost of awards £k</i>	<i>% of Total Cost paid by College</i>
Christ's College	28	69	10%
Churchill College	37	86	4%
Clare College	43	97	10%
Corpus Christi College	24	62	10%
Darwin College	1	0	2%
Downing College	38	91	2%
Emmanuel College	40	83	20%
Fitzwilliam College	57	129	2%
Girton College	45	106	4%
Gonville and Caius College	40	104	35%
Homerton College	195	247	2%
Hughes Hall	19	54	2%
Jesus College	46	127	10%
King's College	57	137	20%
Lucy Cavendish College	20	82	2%
Magdalene College	35	88	4%
New Hall	39	96	2%
Newnham College	44	101	10%
Pembroke College	36	87	4%
Peterhouse	27	69	20%
Queens' College	29	70	2%
Robinson College	45	105	2%
Selwyn College	29	68	4%
Sidney Sussex College	35	85	10%
St Catharine's College	36	92	4%
St Edmund's College	12	55	2%
St John's College	44	107	35%
Trinity College	67	150	35%
Trinity Hall	31	78	10%
Wolfson College	14	49	2%
Total	1213	£2.7m	

Grants for Community-Related Projects

The Trust has continued to operate a scheme offering contributions to community-related undergraduate projects with preference being given to bursary-holders and those undertaking projects within the UK. Some 110 awards were made under this scheme in 2007-08 at a total cost of £24,150. Most of the grants to individuals were for sums less than £500, but within the total the Trust approved a grants of £2,000 to Student Community Action and £800 to the Humanitarian Centre towards office costs.

RESEARCH STUDENT FUNDING

The Trust supports Research Students at Cambridge in two ways: through the Board of Graduate Studies Scheme of Domestic Research Studentships (available to both UK and EU students) described on page 32; and through the scheme of Newton European Research Studentships (for EU students) operated by the Cambridge European Trust and described on page 32.

COLLEGE TEACHING OFFICER (CTO) SCHEME

Aims and objectives

The aims of this scheme is to increase CTO involvement in Faculty teaching and the amount of University teaching available, allow Faculties to choose such extra teachers from CTO ranks as they wish, make it possible for the Tuition Funds of poorer Colleges to afford the consequent reduction in the amount of CTO teaching, to provide a career training opportunity, and to achieve these aims through a scheme that is simple to operate.

Tenure in these posts was initially limited to a maximum of ten years. In a review of the scheme in 2004 the maximum tenure was reduced to 8 years so as to offer greater opportunity to CTOs appointed by Colleges for short periods to compete for a post.

The original scheme established in 1992 operates across faculties, though in practice most posts are in the Humanities.

Summary of awards 2007-2008

Twenty-seven posts are currently filled. **Three** postholders are on leave: Dr Jackson, Mr Mandelbrote and Dr Miles. **One** new appointment has been made with the start date deferred to 1 October 2008: Dr Sujit Sivasundaram (History). There are **two** vacancies. A list of present holders of awards is given in Table 5 below.

Costs

The cost of the CTO scheme for the academic year 2007-2008 was **£117,180**.

Recent changes

Several new appointments and reappointments arose during the year:

Faculty of Classics

Dr Anne Rogerson (Girton College) appointed for five years from 1 October 2007.

Faculty of Economics

Dr Sriya Iyer (St Catharine's) appointed for five years from 1 October 2007.

Faculty of English

Dr Corinna Russell (Emmanuel College) appointed for five years from 1 October 2007.

Faculty of History

Dr Caroline Burt (New Hall) appointed for five years from 1 October 2007.

Dr Sujit Sivasundaram (Gonville & Caius) appointed for five years from 1 October 2008.

Dr Rosemary Horrox (Fitzwilliam) reappointed for a further and final three years from 1 October 2007.

Mr Scott Mandelbrote (Peterhouse) reappointed for a further and final three years from 1 October 2008.

Mr Martin Ruehl (Sidney Sussex), appointed for 5 years from 1 October 2007, but resigned before taking up his post in order to take up a University Lectureship in the Faculty of Modern and Medieval Languages.

Dr Lucy Delap (St Catharine's) appointed for 5 years from 1 October 2007.

Faculty of Law

Dr Isabella Alexander (Robinson) appointed for five years from 1 October 2007.

Dr Andrew Johnston (Jesus) appointed for five years from 1 October 2007.

Faculty of Modern and Medieval Languages

Dr Miranda Griffin (St Catharine's) appointed for five years from 1 October 2007.

Faculty of Social and Political Sciences

Dr Emile Perreau Saussine (Fitzwilliam and Pembroke) appointed for 5 years, with the start date backdated to 1 October 2006.

Table 5
 Holders of CTO appointments 2007-08

Name	Title	Initials	Faculty	No	College	Start of tenure	End of tenure
Aldred	Dr	Jonathan	Land Economy	1 of 1	Emmanuel	1.10.2002	30.9.2008
Alexander	Dr	Isabella	Law	2 of 3	Robinson	1.10.2007	30.9.2012
Batsaki	Dr	Yota	English	2 of 8	St John's	1.10.2004	30.9.2009
Bodenhorn	Dr	Barbara	Social Anthropology	1 of 1	Pembroke/Girton	1.10.2001	30.9.2008
Burt	Dr	Caroline	History	6 of 6	New Hall	1.10.2007	30.9.2012
Delap	Dr	Lucy	History	5 of 6	St Catharine's	1.10.2007	30.9.2012
Dunajski	Dr	Maciej	Mathematics	2 of 3	Clare	1.10.2006	30.9.2011
Ettenhuber	Dr	Katrin	English	4 of 8	Pembroke	1.10.2007	30.9.2012
Fleet	Dr	Kate	Oriental Studies (Turkish)	Super	Newnham	1.1.2001 1.10.2006	30.9.2006 30.9.2011
Goymour	Ms	Amy	Law	1 of 3	Downing	1.10.2005	30.9.2010
Griffin	Dr	Miranda	MML	1 of 4	St Catharine's	1.10.2007	30.9.2012
Henry	Dr	Anne	English	1 of 8	Trinity	1.10.2002	30.9.2008
Horrox	Dr	Rosemary	History	3 of 6	Fitzwilliam	1.10.2002 1.10.2007	30.9.2007 30.9.2010
Iyer	Dr	Sriya	Economics	2 of 2	St Catharine's	1.10.2007	30.9.2012
Johnston	Dr	Andrew	Law	3 of 3	Jesus	1.10.2007	30.9.2008
Madianou	Dr	Mirca	SPS	1 of 2	Lucy Cavendish	1.10.2006	30.9.2011
McNeill	Dr	Isabelle	MML	4 of 4	Trinity Hall	1.10.2006	30.9.2011
Mellor	Dr	Leo	English	7 of 8	New Hall	1.10.2006	30.9.2011
Perreau-Saussine	Dr	Emile	SPS	2 of 2	Fitzwilliam/ Pembroke	1.10.2006	30.9.2011
Rankin	Dr	Deana	English	3 of 8	Girton	1.10.2005	30.9.2010
Rogerson	Dr	Anne	Classics	2 of 2	Girton	1.10.2007	30.9.2012
Russell	Dr	Corinna	English	5 of 8	Emmanuel	1.10.2007	30.9.2013
Schramm	Dr	Jan-Melissa	English	6 of 8	Trinity Hall	1.1.2005	30.9.2009
Segre	Dr	Erica	MML	3 of 4	Trinity	1.10.2004	30.9.2009
Tambakis	Dr	Demosthenes	Economics	1 of 2	Pembroke	1.10.2006	30.9.2011
Woodford	Dr	Charlotte	MML	2 of 4	Selwyn	1.10.2006	30.9.2011
Zurcher	Dr	Andrew	English	5 of 8	Queens'	1.10.2006	30.9.2011

TIME-LIMITED TEACHING FELLOWSHIPS SCHEME

Aims and objectives

The aims and objectives of this scheme are to strengthen the undergraduate supervision system at the less well-endowed Colleges, thereby helping to produce a more even playing field between well-endowed and less well-endowed Colleges; and to help to integrate some of the holders of Newton Additional Appointments and similarly placed postdoctoral researchers into College life.

Policy

The Trustees agreed in 2000 to make up to 25 posts available for young postdoctoral researchers to be elected to teaching Fellowships at the less well-endowed Colleges. The number of posts available under the scheme was increased from 25 to 30 in 2005. Each appointment may be held for up to 5 years. The duties of each person appointed include giving 4 hours per week of undergraduate supervision. In return the Trust pays the College £4,000 per annum toward the overheads involved.

The following Colleges are eligible to participate in this scheme

Downing	Pembroke
Fitzwilliam	Queens'
Girton	Robinson
Homerton	Selwyn
Hughes Hall	St Catharine's
Lucy Cavendish	St Edmund's
Magdalene	Wolfson
New Hall	

Appointments made

The Trust has advertised rounds of appointments annually. In the Easter Term 2007, 18 vacancies were offered to eligible Colleges in competition. As a result, 8 new appointments were made and 2 appointments were extended up to the maximum 5-year tenure as from 1 October 2007.

Two post-holders are on leave: Dr Marijn Ford (Downing) and Dr Jonathan Lee (New Hall).

Current post-holders are shown in Table 6.

**Table 6:
Time-Limited Teaching Fellowship appointments as at 4 March 2008**

Lastname	Firstname	College	Department	From	End of post-doc
Carr	Joanne	New Hall	Chemistry	1 October 2005	30 September 2008
Gair	Jonathan	St Catharine's College	Institute of Astronomy	1 January 2008	30 September 2012
Grainge	Keith	Selwyn College	Physics	1 October 2004	30 September 2009
Greatorex	Jane	Lucy Cavendish College	Medicine	1 October 2003	30 September 2008
Guse	Eran	Fitzwilliam College	Economics	1 October 2004	30 September 2008
Hadeler	Oliver	New Hall	Engineering	1 October 2007	30 September 2010
Hedgeland	Holly	Robinson College	Physics	1 October 2007	30 September 2010
Longbottom	Deborah	Homerton College	Chemistry	1 October 2007	30 September 2012
Maguire	Janet	Queens' College	Clinical Pharmacology	1 October 2007	30 September 2012
McDaniel	Iain	Queens' College	History	1 October 2006	30 September 2008
Morris	Steven	St Catharine's College	Centre of Molecular Materials for Photonics and Electronics (CMMPE)	1 October 2007	30 September 2010
Odhams	Andrew	Queens' College	Engineering	1 October 2006	30 September 2008
Owen	Sara	Fitzwilliam College	Faculty of Classics	1 October 2005	31 December 2009
Pivnenko	Mikhail	New Hall	Engineering	1 October 2007	30 September 2010
Pope	Francis	Robinson College	Chemistry	1 October 2007	30 September 2009
Re Manning	Russell	St Edmund's College	Divinity	1 October 2003	30 September 2008
Tomalin	Marcus	Downing College	English	1 October 2004	30 September 2009
Treece	Graham	Queens' College	Engineering	1 October 2003	30 September 2008

CAMTRUST DONATION

During 2007-08 a Trinity alumnus generously provided by Deed of Gift a donation specifically in support of an Arts Management Course as part of the MBA programme at the Judge Business School. The donation (amounting to endowment of more than £1m) is to be administered by the Trust and for their part the Trustees have agreed to make a further donation of £50,000 over 5 years in support of this initiative. Work on the course has started at the Judge Business School and the first (small) contribution was paid by the Trust as shown in Table 7 below.

Table 7
CAMTRUST FUND
as at 4 March 2008

Camtrust Fund	£k
Received from Private Donor during 2007-08:	
Cash	100
Share value	1065
Paid to Judge Business School during 2007-08:	6
End of year Valuation:	
Cash	94
Share value	1161

GRANTS MADE TO OTHER BODIES

DOMESTIC RESEARCH STUDENTSHIPS

Aims and objectives

To award research scholarships to the best 'Home' (i.e. UK and EU) students who fail to gain support from public sources such as the Research Councils and the AHRC.

Policy

The Newton Trust agreed in 1997 to contribute £75,000 per annum for five years to a University-wide scheme, adding to other sources of funds to increase the number of awards available. The awards are made by the Board of Graduate Studies on the advice of Academic Division's Committee on Awards. The majority of awards are made to students in the Arts and Humanities. During 2002-03 the Trustees agreed to extend the period of support for a further five years at £85,000 per annum; in 2004 agreed an increase to £90,000 per annum.

In addition, the Trust agreed in 2002 to provide underwriting of £250,000 over a five-year period to enable firm offers of support to be made earlier by the Committee on Awards to strong candidates who might otherwise be tempted to go to other Universities but who were likely in the event to receive funding from public sources.

Without warning or consultation, the AHRC announced in 2008 that it would reduce the funding for research studentships with an immediate cut (for 2008-09) of a third in the number of studentships to be awarded. Trustees recognised that this sudden change would have a severe impact on research in Arts and Humanities and agreed that the underwriting for the DRS competition could be spent in the current year. They also put in place a scheme in collaboration with the University and the Colleges to make available additional studentships for 2008-09.

Grants awarded

In 2007 some 22 new awards were made. The Secretary of the Board of Graduate Studies reported that the availability of the Trust's underwriting had been useful in enabling early offers of awards to be made to students who might otherwise have moved elsewhere but who had, in the course of events, subsequently been awarded a studentship by AHRC. £188,681 of the underwriting remains available.

NEWTON EUROPEAN RESEARCH BURSARIES

Aims and objectives

The aims and objectives of this scheme are to encourage able students from the European Union to do research at Cambridge and to help them take up their places. (EU students are eligible for support from public sources for their fees, but not for maintenance.)

Policy

The Trustees agreed in 1999 to make a donation to the Cambridge European Trust totalling £600,000 to provide a pilot scheme of Newton European (Research) Studentships of annual value up to £2,000 tenable for up to 3 years, to be awarded to PhD students from the EU by the Cambridge European Trust on the basis of departmental recommendations. A further £400,000 was awarded during 2002-03, and in 2004-05 the Trustees agreed to make a further and final grant of £400,000 over 2 years for the same purpose. No payment was made in 2007-08.

APPENDIX 1

Isaac Newton Trust

Accounts

for the year ended 31 January 2008

Isaac Newton Trust

Accounts

for the year ended 31 January 2008

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APPENDIX 2

Consolidated list of grants 1998-2008

The following Tables list all the grants that the Trustees have approved in the ten year period from 10 July 1998 to 4 March 2008 inclusive. As shown in the Tables, not every grant approved has been taken up, either because circumstances have changed, or else because the Trust's matching requirement has not been met.

The following abbreviations are used:

AA=Additional Appointment
 EG=Equipment Grant
 C=Confirmed [shaded=part confirmed]
 U=Underwriting
 CU=Underwriting taken up
 L=Lapsed
 W/D=Withdrawn
 X=Not Confirmed
 MI=Major Initiative

Sums in square brackets are not included in totals (because the grant has either been withdrawn, or included elsewhere).

The correspondence of Minute numbers to meeting dates is as follows:

Year	Minutes	Year	Minutes
1988	1 – 26	1999	622 – 695
1989	27 – 94	2000	696 – 766
1990	95 – 185	2001	1.00 – 1.59
1991	186 – 264	2002	2.00 – 2.49
1992	265 – 322	2003	3.00 – 3.53
1993	323 – 388	2004	4.00 – 4.55
1994	389 – 447	2005	5.00 – 5.57
1995	448 – 496	2006	6.00 – 6.60
1996	497 – 535	2007	7.00 – 7.62
1997	536 – 578	2008	8.00 –
1998	579 – 621		

The column headed 'Matching Required' indicates the total matching sum (normally from sources outside Cambridge, but occasionally from within) required to release the Newton Trust grant. For Confirmed grants (labelled 'C') this matching requirement has been met.

An index to the Tables is given at the end. Some items in the index refer to grants made before 1998, in particular for the Special Donations made by the College in 1996-1997 on which the Trust made a final report in 2004.