

## Research Grants and Contracts Awarded 2002-03

### Accounting, Finance and Management

Award Holder	Funding Body	Amount	Project Title	Duration
Dr S N Uddin	Nuffield Foundation	£5,690	Control Practices in Private Manufacturing Companies in a Less Developed Country	2 years
Professor G Burrell	Sage Publications Ltd	£3,750	Royalty payments	4 months
Total		£9,440		

### Art History and Theory

Award Holder	Funding Body	Amount	Project Title	Duration
Dr N Cox	British Academy	£7,520	Cubism, Surrealism and Tradition: the presence of the past in modernist art	2 years
Total		£7,520		

### Biological Sciences

Award Holder	Funding Body	Amount	Project Title	Duration
Professor D Nedwell	Natural Environment Research Council	£320,831	Structure and function in the benthic nitrate reducing communities along the nitrate gradient in a high nitrate estuary, the Colne estuary, Essex	3 years
Professor P Thornalley	The Wellcome Trust	£259,228	Glycation of human serum albumin, haemoglobin and lens crystallins and capsule collagen by methylglyoxal and other $\alpha$ -oxoaldehydes in vivo: site, extent and structural and functional consequences of modification	3 years
Professor M Wilson	Biotechnology and Biological Research Council	£223,696	Characterisation of Haem-Protein Cross-Linked Respiratory Proteins: investigation of mechanisms for enhanced pro-oxidant activity	3 years
Dr C Raines and Dr J Lloyd	Biotechnology and Biological Research Council	£210,408	The role of the chloroplast protein, CP12, in the regulation of carbon metabolism	3 years
Professor M Wilson	Biotechnology and Biological Research Council	£199,052	Docking and electron transfer reactions of metalloproteins studied using site-directed mutants of cytochrome C	3 years
Professor C	The Wellcome	£194,253	Nitric oxide interactions with copper in	3 years

Cooper	Trust		cytochrome oxidases	
Professor K Timmis	European Commission	£172,826	LINDANE	3 years
Dr M Osborn	European Commission	£169,268	COMMODE	2 years, 4 months
Professor P Thornalley	Food Standards Agency	£151,110	Glucosalinic Acid Stability in Culinary Processing and Storage	3 years
Professor C Cooper	The Wellcome Trust	£125,000	Can imaginary exercise be used to control and focus muscle blood flow changes?	2 years
Professor I Colbeck	European Commission	£103,617	URBAN-EXPOSURE	3 years
Dr P Dobbin and Dr C Edwards	Biotechnology and Biological Research Council	£57,834	Structurally-defined macromolecular prodrugs synthesis and biological evaluation	3 years
Professor C Cooper	Medical Research Council	£50,872	Physical techniques to study brain energetics and disease	1 year
Dr C Raines	European Commission	£50,826	An Integrated European Scientific Infrastructure for Global Change Studies on Forest and AgroForest Ecosystems Utilising Face Technology (EUROFACE)	3 years
Dr M Osborn	CEFAS	£50,000	Feasibility of developing an in-house capability to utilise molecular techniques and environmental impact assessment for a variety of customers	4 years
Professor P Thornalley	Juvenile Diabetes Research Foundation International	£33,602	Evaluation of methylglyoxal derived protein glycation adducts as medium term indicators of postprandial and fasting hyperglycemia in type 1 clinical diabetes mellitus	1 year
Professor D B Nedwell	Natural Environment Research Council	£29,479	Interaction of gene expression and ecological function in non-extremophilic archaea	18 months
Dr E Klenova	Essex Rivers Healthcare Trust Charitable Ledger	£15,000	Breast Tissue Studies Project	6 months
Professor P Thornalley	The Biochemical Society	£5,028	"The enzymatic defence against glycation in health, disease and therapeutics" The 679th UK Biochemical Society Meeting	2 days
Professor P Thornalley	Baxter Healthcare	£3,450	"The enzymatic defence against glycation in health, disease and therapeutics" The 679th UK Biochemical Society Meeting	2 days
Dr T McGenity	The Society for General Microbiology	£1,580	Vacation Studentship 2003 for Jenny Gillion	8 weeks

Dr C Raines	The Gatsby Charitable Foundation	£1,500	Conference - Novel approaches to understanding photosynthetic performance 15-17 September 2003	1 year
Professor P Thornalley	The Nuffield Foundation	£1,320	Summer vacation stipend for Mr Thomas Fleming	8 weeks
Professor C Cooper	The Nuffield Foundation	£1,290	Undergraduate Research Bursaries 2003 - Free radical reactions in myoglobin and haemoglobin	19 weeks
Professor N Fernandez	The Wellcome Trust	£1,240	Vacation Scholarship for Alison Brown	8 weeks
Professor P Thornalley	Fresenius Medical Care	£1,000	"The enzymatic defence against glycation in health, disease and therapeutics", Colchester 2-4 July 2003	2 days
Total		£2,433,310		

#### Centre for Environment and Society

Award Holder	Funding Body	Amount	Project Title	Duration
Professor J Pretty	Essex Community Foundation	£20,000	Social Needs of Essex	8 months
Professor J Pretty	Department for International Development	£15,375	Reducing poverty with sustainable agriculture: longitudinal survey of changes over time	8 months
Professor J Pretty	Soil Association	£10,000	Preparation of a study on social capital in the context of ACP agriculture and rural development	9 months
Professor J Pretty	Technical Centre for Agriculture and Rural Co-operation (CTA)	£3,671	Preparation of a study on social capital in the context of ACP agriculture and rural development	5 months
Professor J Pretty	Colchester Primary Care Trust	£3,000	Health Needs Analysis for Modernising Health Care	3 months
Professor J Pretty	The Countryside Agency	£2,800	Social capital and land management research and seminar	1 year
Professor J Pretty	International Water Management Institute	£2,640	Consultancy services	11 months
Total		£57,486		

#### Chimera (ISTIR)

Award Holder	Funding Body	Amount	Project Title	Duration
Professor C Fowler	EEDA	£8,120	Accessing Learning from the Workplace: using distance learning methods to develop work based	18 months

			learning in the East of England	
Mr J Scott	University of London	£662	Consultancy work for the SUPERCOMET project	1 month
	Total	£8,782		

### Computer Science

Award Holder	Funding Body	Amount	Project Title	Duration
Mr O Holland	Engineering and Physical Sciences Research Council	£314,781	Machine consciousness through internal modelling	3 years
Dr V Callagahn, Dr M Colley and Dr H Hagras	European Commission	£286,761	Self Organised Societies of Connectionist Intelligent Agents Capable of Learning (SOCIAL)	3 years
Professor H Hu	London Aquarium Ltd	£100,000	Robot City : capturing the imagination for public awareness of robots	21 months
Dr D Gu	Engineering and Physical Sciences Research Council	£91,545	Scaling Reinforcement Learning to Multi-Robot Systems	2 years
Dr H Hagras	Man B & W Diesel Ltd	£42,000	Sponsorship of a PhD student	3 years
Professor H Hu	BNFL	£5,000	Potential application of AI robotics technology to nuclear facility decommissioning	4 months
Dr U Nehmzow	The Royal Society	£3,050	Visit to University of Wollongong , Australia	3 months
Dr Q Zhang	The Royal Academy of Engineering	£2,350	Senior Visiting Fellowship in Communications	1 month
Dr M Fasli	The Royal Society	£1,100	Conference Grant	5 days
Dr M Fasli	The Royal Society	£550	Conference Grant	1 month
	Total	£847,137		

### Economics

Award Holder	Funding Body	Amount	Project Title	Duration
Dr A Gosling	Economic and Social Research Council	£30,939	Intra household allocation and the living standards of the elderly in Europe	9 months
	Total	£30,939		

### Electronic Systems Engineering

Award Holder	Funding Body	Amount	Project Title	Duration
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Professor I Henning	Department of Trade and Industry	£99,766	Self-organising collegiate sensor networks (SECOS) project	2 years
Dr D Bebbington	European Commission	£94,219	Application of Multi-Parameter Polarimetry in Environmental Remote Sensing (AMPER)	3 years
Professor Ridley	US Office of Naval Research	£93,943	Theory of Spin-Relaxation Processes in Low Dimensional Structures	22 months
Professor I Henning	British Telecom	£72,666	Technology to support e-learning (PhD studentship – Yan Chen)	3 years
Dr S Walker	Engineering and Physical Sciences Research Council	£60,700	Investigation of Distributed and Holographic Optics ( IDAHO )	1 year
Dr D Bebbington and Professor A Holt	Meteorological Office	£52,140	The potential of polarimetric radiometry for NWP	3 years
Professor I Henning and Professor M Adams	Engineering and Physical Sciences Research Council	£47,338	Optoelectronic devices for telecommunications application using antimonide based typ-II quantum wells: feasibility study	6 months
Professor I Henning	British Telecom	£45,111	Image Interpretation Project	1 year
Professor A Downton	British Telecom	£18,000	PhD Studentship: M Brady	3 years
Dr S Sangwine	Engineering and Physical Sciences Research Council	£15,797	Visiting Fellowship: hypercomplex signal and image processing	3 years
Professor N Balkan	Engineering and Physical Sciences Research Council	£12,204	Physics and Technology of Dilute Nitrides: research visit to set up networks of excellence for the EC - FP6	7 months
Dr S Sangwine	Engineering and Physical Sciences Research Council	£9,597	Visiting Fellowship: Hypercomplex processing of vector signals and images	2 years
Dr A Vickers	Department of Trade and Industry	£7,300	Basic Technology TT Project: OTTMV	6 months
Dr N Newton	The Leverhulme Trust	£6,877	Statistical mechanics and stochastic systems	4 months
Professor D Barber	The British Council	£500	TEM and HRTEM studies of semiconductor nanocrystals embedded in dielectric films prepared by sputtering and chemical methods	1 year
Total		£636,157		

## Government

<b>Award Holder</b>	<b>Funding Body</b>	<b>Amount</b>	<b>Project Title</b>	<b>Duration</b>
Dr H Dorussen	European Commission	£54,790	Domestic structures and european integration (DOSEI)	3 years
Professor A Weale	Economic and Social Research Council	£27,295	Postdoctoral Fellowship: Realising Deliberative Democracy: institutional and social conditions for democratic dialogue	1 year
Mr E Tanenbaum	Economic and Social Research Council	£23,175	Thirty-sixth Essex Summer School 2003	6 weeks
Total		£105,260		

### Health and Human Sciences

<b>Award Holder</b>	<b>Funding Body</b>	<b>Amount</b>	<b>Project Title</b>	<b>Duration</b>
Dr G Green	Multiple Sclerosis Society	£48,772	Biographical comparison of people with MS and the general public	1 year
Dr P Martin	The Princess Alexandra Hospital NHS Trust	£28,316	Service level agreement	14 months
Dr G Green	BHIVA	£16,000	Review of psycho-social and health care needs of HIV positive people in the UK	6 months
Professor R Hammersley	European Commission	£7,241	Identifying Trends in European Medical Space (ITEMS)	30 months
Total		£100,329		

### History

<b>Award Holder</b>	<b>Funding Body</b>	<b>Amount</b>	<b>Project Title</b>	<b>Duration</b>
Dr P Razzell	Economic and Social Research Council	£162,818	The Sociological Study of Fertility and Mortality in Ipswich , 1872-1910	3 years
Professor H Brogan	The British Academy	£3,150	The life and times of Alexis de Tocqueville	1 month
Total		£165,968		

### Human Rights Centre

<b>Award Holder</b>	<b>Funding Body</b>	<b>Amount</b>	<b>Project Title</b>	<b>Duration</b>
Professor P Hunt	Joseph Rowntree Charitable Trust	£106,000	Researcher for UN Special Rapporteur on the Right to Health	18 months

Dr T Landman	European Commission: EUROSTAT	£52,129	Map-Making and Analysis of the Main International Initiatives on Developing Indicators on Democracy and Good Governance	6 months
Dr T Landman	Foreign Ministry of the Netherlands	£47,480	Human rights impact assessment and performance evaluation	5.5 months
Total		£205,609		

#### Institute for Social and Economic Research

Award Holder	Funding Body	Amount	Project Title	Duration
Professor R Berthoud	European Commission	£225,733	EPUNet	3 years
Professor S Jenkins and Professor P Lynn	Economic and Social Research Council	£184,791	Improving Survey Measurement of Income and Employment	2 years
Professor P Lynn	Department for International Development	£111,525	Sample framework for the household budget survey – Bosnia and Herzegovina	9 months
Ms E Clucas	European Commission	£83,957	Public Research Organisations Technology Offices Network Europe (ProTon Europe )	4 years
Dr C Nicoletti and Professor J Ermisch	Economic and Social Research Council	£73,334	Intergenerational mobility in Britain : Does sample selection matter?	25 months
Professor P Lynn	Department for Education and Skills	£59,062	Development work for the Longitudinal Study of Young People – methodological study	11 months
Professor R Berthoud	Department of Work and Pensions	£54,150	FCSA Programme: The relationship between low income families and living standards over time	11 months
Professor J Gershuny	Economic and Social Research Council	£24,347	UK Longitudinal Studies Centre – core funding adjustment	5 years
Professor N Buck	Economic and Social Research Council	£20,000	Ethnicity Scoping Study	3 years
Professor R Berthoud	Economic and Social Research Council	£10,170	Diverse Europe : Mapping Patterns of Social Change Across the EU	3 months
Professor J Gershuny	European Commission: Eurostat	£6,865	A Wider User of Time Use Data for Policy Purposes – feasibility study on the analysis of time use survey data	2 years
Total		£853,934		

## Law

Award Holder	Funding Body	Amount	Project Title	Duration
Ms F Brennan	Arts and Humanities Research Board	£13,153	Institutional Racism and the Law	4 months
Professor J Gobert	The British Academy	£647	Thirteenth World Criminology Conference 2003	6 days
Ms F Brennan	The British Academy	£218	Meanings of Community	5 days
Total		£14,018		

## Literature

Award Holder	Funding Body	Amount	Project Title	Duration
Professor J Gillies	Arts and Humanities Research Board	£13,153	Shakespeare's Theatre of Crime and Complicity	4 months
Professor A Livingstone	The British Academy	£2,600	Myth, Mimesis and Symbolism in Russian Twentieth-Century Aesthetics: Literature of the Avant-garde, Socialist Realism, Andrei Platonov - a Visiting Professorship for Dr V Vyugin	1 year
Professor J Gillies	The British Academy	£1,820	Othello on the Boulevard du Crime	1 month
Dr M Fumagalli	The British Academy	£150	Injustice and Insubordination: the Caribbean Writer as "Warrior of the Imaginary"	3 days
Total		£17,723		

## Psychology

Award Holder	Funding Body	Amount	Project Title	Duration
Professor E Fox, Dr S Eltiti, Professor R Russo, Professor D Mirhskear and Dr F Sepulveda	Department of Health	£247,467	Hypersensitivity Symptoms Associated with Electromagnetic Field Exposure	2 years
Professor R Meddis	Biotechnology and Biological Research Council	£227,932	A computer model of pitch processing in the auditory brainstem	3 years
Dr J Masterson	Psychology	£133,214	Object and action naming and noun/verb comprehension in Alzheimer's disease	3 years
Dr M Perugini	Economic and Social Research Council	£89,906	The interplay between implicit and explicit attitudes in predicting behaviour	2 years



Professor A Wilkins	Economic and Social Research Council	£52,162	Accommodating individual differences	1 year
Total		£750,681		

### Sociology

Award Holder	Funding Body	Amount	Project Title	Duration
Professor T Benton	European Commission	£55,343	Organised Civil Society and European Governance (CIVGOV)	30 months
Dr A Coban	The Leverhulme Trust	£20,620	Visiting Fellowship	10 months
Dr H Tanaka	Arts and Humanities Research Board	£13,153	A conversation analytic study of response particles in Japanese conversation from a comparative perspective	4 months
Total		£89,116		

### UK Data Archive

Award Holder	Funding Body	Amount	Project Title	Duration
Professor K Schürer	Economic and Social Research Council	£5,803,421	Economic and Social Data Service: Management, Core Ingest, Delivery and Preservation and Value Added Functions for Longitudinal and Qualitative Datasets	4 years, 9 months
Professor K Schürer	Economic and Social Research Council	£286,000	Extension of the Data Archive core award 2000-02	3 months
Professor K Schürer	European Commission	£229,384	MADIERA	3 years
Professor K Schürer	Arts and Humanities Data Service	£161,276	AHDS funding for the History Data Service 2002/03	1 year
Professor K Schürer	Arts and Humanities Data Service	£156,000	AHDS funding for the History Data Service 2003/04	1 year
Dr A Crockett	Economic and Social Research Council	£35,450	The British Household Panel Study and key issues in religious change	20 months
Professor K Schürer	European Commission	£21,826	MetaDater	3 years
Mrs L Bell	The Joint Information Systems	£16,897	CHCC Census Resource Discovery System	4 months

	Committee			
	Total	£6,710,254		

**University of Essex**

Total

£13,043,662
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