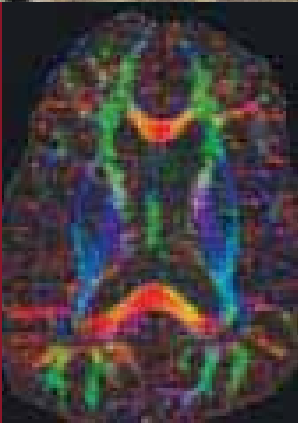


DOWNING COLLEGE



The Mays Wild Appeal





Downing is a place that strives to nurture and encourage promising young researchers and teachers by bringing them into a community of Fellows with rich and diverse experience.

The Mays Wild Fund for the Natural Sciences

Downing College enjoys a first-class reputation for Natural Science and is today a centre of scientific excellence. Much of the credit for this achievement is attributable to the inspirational leadership of Frank Wild and Martin Mays, whose combined service as Fellows spans nearly 70 years. To commemorate their exceptional contributions, the College has established a fund in both their names to support the Natural Sciences (biological and physical), and in particular to establish a Mays Wild Fellowship.

Downing undergraduates regularly produce outstanding Tripos results. Many who have studied Natural Sciences at Downing have become distinguished academics with international reputations; others have entered the wider world and, building on their scientific training, have attained leading positions in a broad range of careers. The achievements of Downing Natural Scientists from both spheres are celebrated in this brochure along with the activities of our present Fellows in Natural Sciences, all of whom are distinguished in

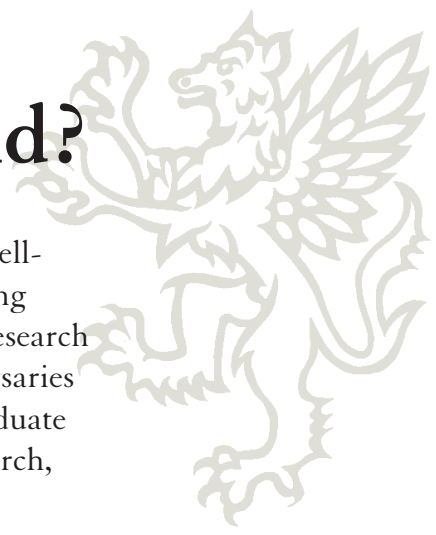
research whilst being committed to teaching excellence.

Downing is a place that strives to nurture and encourage promising young researchers and teachers by bringing them into a community of Fellows with rich and diverse experience. The Mays Wild Fund will provide an invaluable resource that will help to achieve this goal and to enable Downing to play a full role in developing the next generation of Cambridge scientists.

As Master and as a Professor in the Biological Natural Sciences, I very much hope that you will be able to join us in this endeavour by giving generously to the Mays Wild Fund for the Natural Sciences.

Professor Barry Everitt Sc.D.
Master

Why do we need this fund?



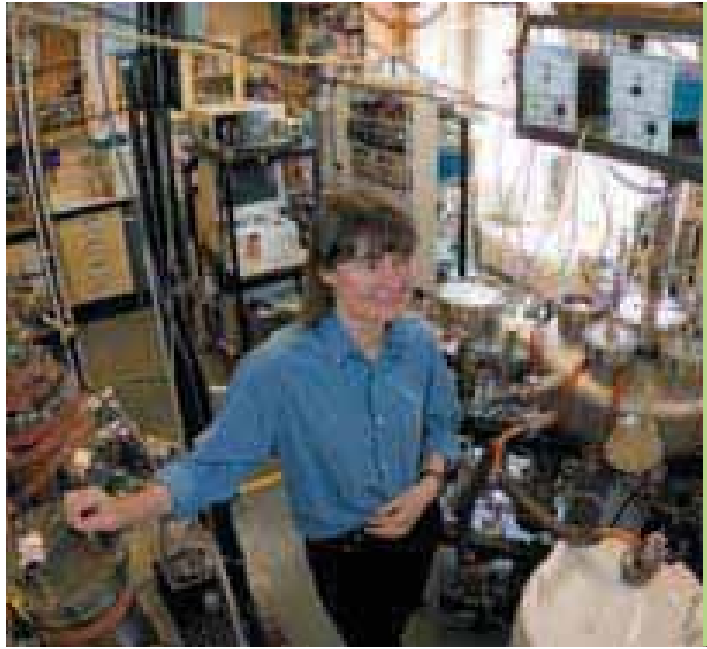
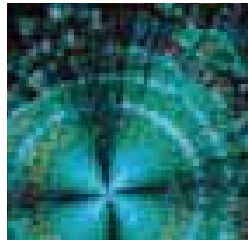
The Natural Sciences exist in a dynamic, competitive and rapidly changing environment. For Cambridge to stay at the forefront – not only to keep pace but to lead the way amongst international competitors – it needs to attract the most talented scientists.

Downing College has a long tradition of excellence and leadership in Natural Sciences. In order to maintain and enhance its leading position, Downing must continue to provide an environment that compares favourably to that provided by other Cambridge Colleges. This includes a strong Fellowship committed to teaching and

research, convenient and well-equipped living and working space, generously funded research and teaching resources, bursaries for undergraduate and graduate students to undertake research, and other less tangible but nevertheless important advantages such as the friendly and supportive atmosphere that both Fellows and students look for when choosing a Cambridge College.

The reduction of financial support to Colleges generally in recent years and the present uncertainty over public funding present a significant challenge to these ideals. We can no longer take for granted the necessary financial underpinning, and must take a proactive approach to safeguard the quality of our academic community.





The aim of this fundraising initiative is to secure Downing's future as a leading College for the Natural Sciences, and its central objective is the permanent appointment of a Mays Wild Fellow in the Natural Sciences at the College. This initiative is therefore a significant part of our strategy to ensure that the most outstanding University teachers and researchers are attracted to Fellowships at Downing.

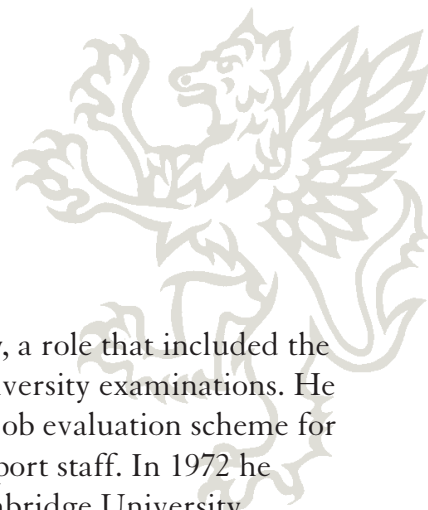
The College has for some years had in place a generous anonymous benefaction of £150,000 in memory of Frank Wild, with interest to be used towards Fellowship costs. This gives a tremendous start to the new Mays Wild Fund, which will provide the endowment for a Mays Wild Fellow.

To enable the endowment of this Fellowship, our target is to raise £500,000.

We hope that the generosity of alumni will allow the Mays Wild Fellowship to be established; this is our principal aim. If sufficient additional funds are raised, then further awards in support of Natural Science will be created. These would include Mays Wild Research Associateships to attract outstanding post-doctoral researchers to the College, and Mays Wild Research Studentships to support undergraduate research and graduate research leading to Ph.D.s.

Frank Wild

1916–1984



Born in Blackburn, Frank came up to Downing from Queen Elizabeth's Grammar School in 1935. He read Natural Sciences, gaining a first and the highest place in the University in Part 2.

Following graduation he won the Gordon Wigan Prize in Chemistry, a WA Meek Scholarship and a Goldsmith Senior Studentship. He obtained his Ph.D. in 1940 in just four terms. His book, *The Characterisation of Organic Compounds*, was published in 1947.

In 1945 he was appointed Research Chemist in the Faculty of Medicine, elected a Downing Fellow and appointed as Tutor. He became Senior Tutor in 1950 and held the post for 15 years. During this time he introduced the Downing system whereby the individual academic performance of each student is considered by the governing body annually. He also served as Senior Treasurer for the Amalgamated Clubs, transforming the organisation of the clubs and establishing the Henley Fund with charitable status.

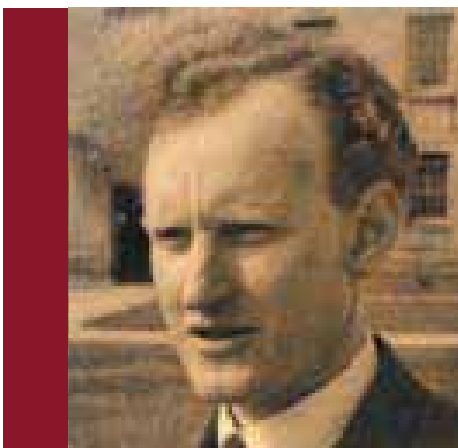
His management skills were recognised not only in Downing but also in the University, and in 1966 he was appointed

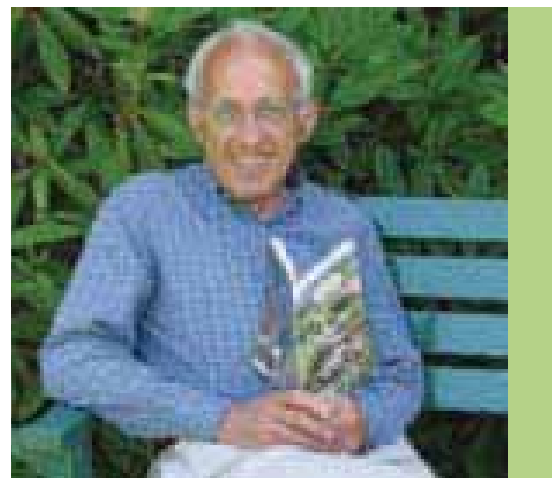
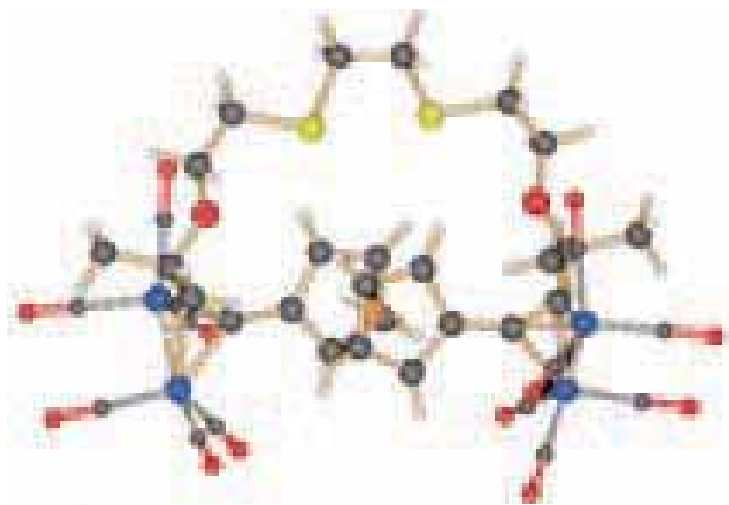
Deputy Registry, a role that included the running of all University examinations. He also established a job evaluation scheme for all University support staff. In 1972 he moved to the Cambridge University Examinations Syndicate to be its chief executive, a post he held until his retirement in 1983.

In 1983 he was elected an Honorary Fellow of Downing. He had also been elected to a Fellowship of St Edmund's House, for which, as a Roman Catholic, he had much affection.

Frank demanded high standards in everything, whether on the playing fields or in the organisation of the May Ball. A keen cricketer, he was one of few to hit the renowned West Indian, Leary Constantine, for six. He was a great supporter of the College boat club (DCBC), and the *Patricia Jane* was named after his daughter.

We can never know what Frank Wild would have thought about having a Fellowship in his name, but we can be sure that he would have approved thoroughly of a project to increase the standards and reputation of Downing as a centre of excellence in Natural Sciences.





Martin Mays

1937–

Born in London and educated at Highgate School, Martin Mays first came to Downing College in 1957, having gained a major scholarship to read Natural Sciences. Following his graduation he obtained his Ph.D. at Cambridge, then spent a brief period in industry and lecturing at Imperial College London before returning to Cambridge University and a Fellowship at Downing in 1965.

Martin's field of scientific study is inorganic chemistry; the fruit of his work on inorganic synthesis and the mechanisms of organometallic reactions is evidenced not only in over 200 research papers but also in the thousands of completely new substances, many with potentially useful applications, which he has built and studied with the help of more than 40 research students. As well as being a senior lecturer at Cambridge, Martin has held visiting professorships at the Australian National University and the University of Western Ontario.

His work as a scientist and teacher notwithstanding, Martin's career has

essentially been one of devoted service to Downing. With over 20 years as Director of Studies, 14 as Admissions Tutor, 10 as Senior Tutor and four as Vice Master, Martin has made an immeasurable contribution to the life of the College. His wisdom and fair-minded views have played a central role in the development of College policy, and he has been influential in the appointment of many amongst the Fellowship today. Martin will be remembered vividly by many scientists and non-scientists from their initial interview, and in his role of Admissions Tutor he admitted the first women to Downing.

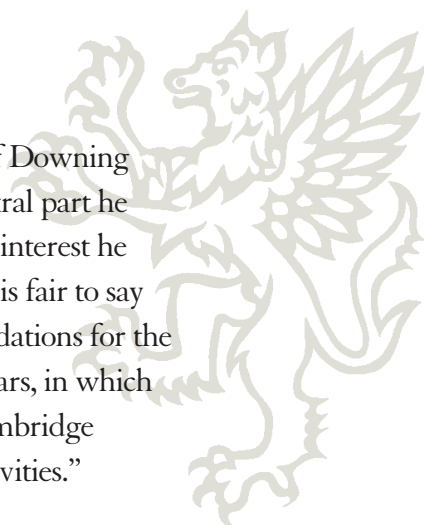
In addition to his activities within the College, Martin has served on many top-level boards and committees within the University, including the Council of Senate and the General Board.

Martin believes he owes much to Frank Wild, his own Tutor and Director of Studies, who subsequently advocated his admission to the Fellowship and was "a fantastic mentor who gave wonderful support".



“Frank Wild is remembered by generations of Downing graduates from the 1940s onwards for the central part he played in Downing and the commitment and interest he showed in their progress and achievements. It is fair to say that he played a pivotal role in laying the foundations for the achievements of the College in more recent years, in which Downing has become one of the foremost Cambridge colleges in academic, sporting and cultural activities.”

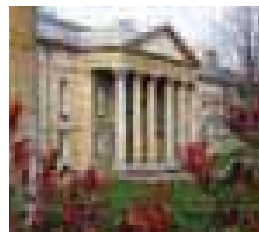
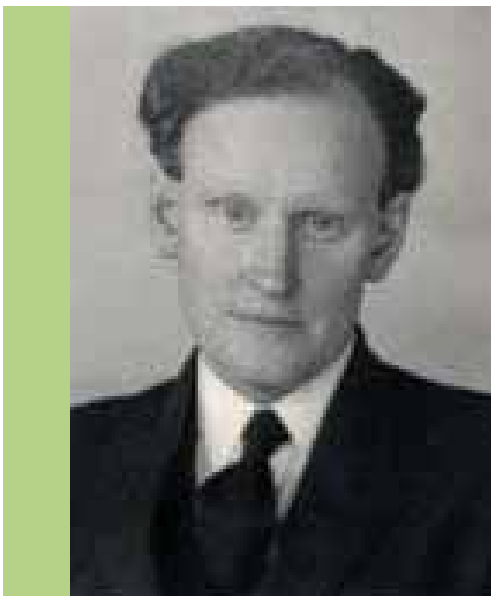
Dr Stephen Fleet

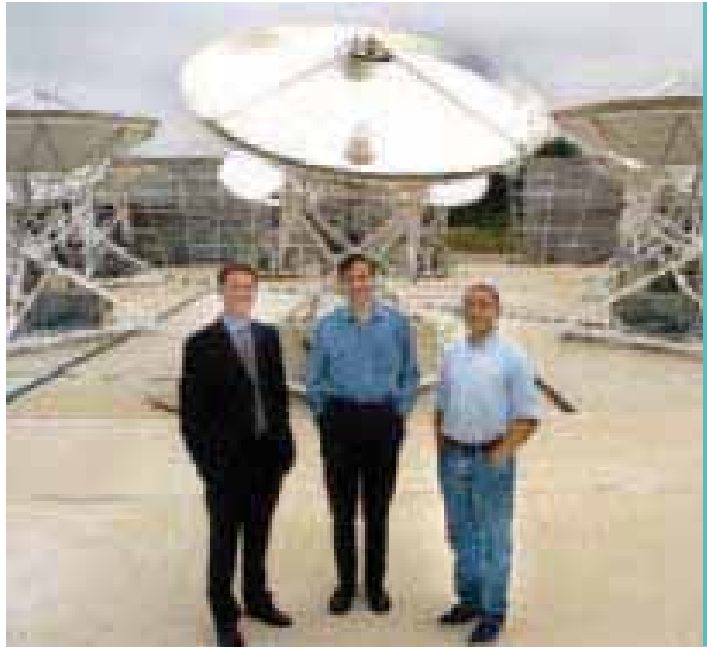
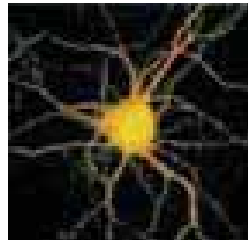
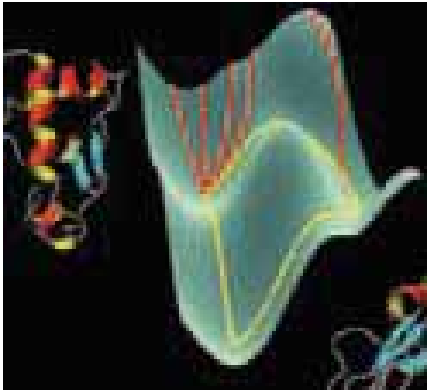


“A college always depends on dedicated individuals who see their college commitments with at least equal priority to their faculty and research interests – not that there need be an inevitable conflict between these imperatives: successful academics in Cambridge have usually drawn strength and synergy from the combination. So it has been with Martin Mays, to whom the college has owed so much over so many years. He was the ‘anchor-man’ of his subject in the

College, as many generations of undergraduates and graduate students will testify, and the many continuing friendships demonstrate the warmth of his personal relationships forged with them when at Downing.”

Dr Peter Mathias





Natural Sciences at Downing

In remembering the contributions of Martin Mays and the late Frank Wild, we are celebrating nearly 70 years of Natural Sciences at Downing. During this period – which spans a third of our history – over 1500 Natural Scientists, including undergraduates, postgraduates and Fellows, have passed through College.

In their various roles within the College, Frank and Martin succeeded in attracting a diversity of undergraduates and postgraduates of the highest quality and potential – and nurtured their academic and personal development. As a result, Natural Science at Downing has matured and blossomed so that it now has one of the highest ratios of applicants to places in Cambridge.

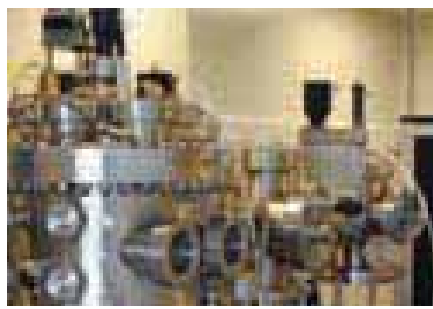
Downing Natural Scientists have gone on to a wide range of outstanding

achievements: in pure and applied science; in industry, commerce and other fields; in the UK and abroad. Here we illuminate and celebrate some of those distinguished careers.

We cannot hope in these few pages to do justice to the breadth and depth of this achievement: the ‘pen-portraits’ that follow are but a sample. A more comprehensive chronicle is being compiled and will be made available on a special website:

www.dow.cam.ac.uk/~do/mayswild

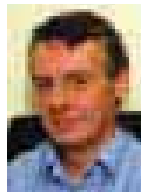
It is our hope, however, that this accolade will be a fitting tribute to the work of Frank and Martin; that it will highlight the enormous value of their work; and that it will serve as a reminder of the importance of securing these foundations and building on them for the future.



The Fellows in Natural Sciences

Downing's Fellowship has always been strong in Natural Sciences and many have achieved great distinction in research and teaching. These achievements have been recognised by promotions both within the University and by the award of Chairs at other leading Universities worldwide. The following three Fellows, for example, have been internally promoted to Professorships within the University of Cambridge in recent years.

Bill Clyne, Ph.D., Professor of Mechanics of Materials

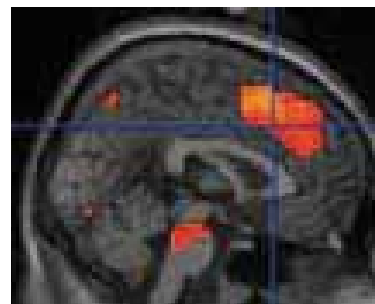
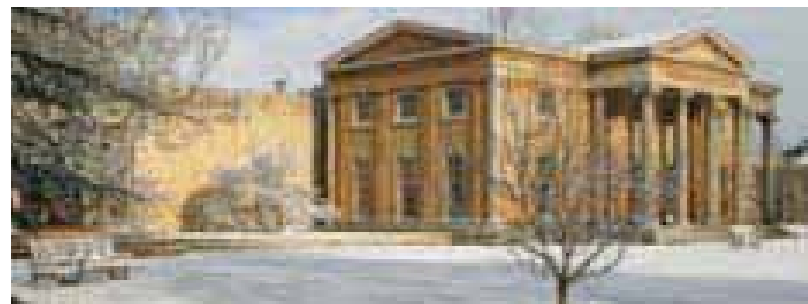


After a first degree and Ph.D. in the Department of Materials Science at Cambridge, Professor Clyne became a Fellow of Downing in 1985. He has been Director of Studies in Natural Sciences and Admissions Tutor for Science. Professor Clyne's research is on the thermo-mechanical behaviour of a wide range of composite systems, including metal-based composite materials, layered systems, sandwich sheets, metallic foams and certain types of surface coating. Recent innovations include the development of actuators based on magnetic and shape memory materials, with potential applications in the biomedical field. There is also ongoing work on thermal barrier coatings and other systems for protection against various extreme environments as experienced, for example, in jet engines.

Charles Ellington, Ph.D., FRS, Professor of Animal Mechanics, Department of Zoology

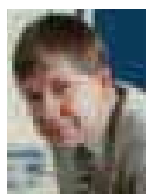


With general interests in the fields of biomechanics and comparative physiology, Professor Ellington has a particular fascination for animal flight. His research group has studied flight in such varied species as pterosaurs (using reconstructions which are tested in windtunnels to predict their gliding performance), in fruit bats (using a colony at Chester Zoo) and in thrips –



tiny flying insects with feathery wings. The mechanics and aerodynamics of flapping-insect flight are investigated using high-tech robotics, particle image velocimetry (PIV) and force measurement techniques. The knowledge gained is being applied to the design of flapping-wing micro air vehicles (MAVs), which have uses in inspection and surveillance.

Trevor Robbins, Ph.D., Professor of Cognitive Neuroscience

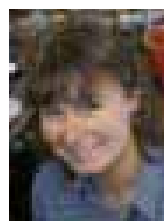


Trevor Robbins was appointed in 1997 as the Professor of Cognitive Neuroscience and was elected to the Chair of Experimental Psychology at Cambridge in October 2002. He

is also Director of the newly established Cambridge MRC Centre in Behavioural and Clinical Neuroscience, the main objective of which is to interrelate basic and clinical research in psychiatry and neurology for such conditions as Parkinson's, Huntington's and Alzheimer's diseases, frontal lobe injury, schizophrenia, depression and drug addiction. Having been President of the European Behavioural Pharmacology Society, he won that Society's inaugural Distinguished Scientist Award in 2001. He has also been President of the British Association for Psychopharmacology, a member of the Medical Research Council (UK) and Chair of the Neuroscience and Mental Health Board. He has been included on ICI's list of the 100 most cited neuroscientists.

All Downing Fellows in Natural Sciences, most of whom also hold University positions, are actively engaged in research as well as teaching. Space does not permit detailed descriptions, but the following summary of names and research interests indicates the breadth of coverage and the depth of expertise.

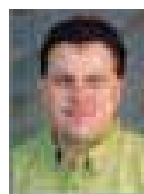
Zoe Barber, Ph.D., University Senior Lecturer, Department of Materials Science



Currently the College's Director of Studies in Physical Natural Sciences, Zoe Barber works with both physicists and engineers to develop precision thin-film deposition. The applications include uses in micro-electronics

and coatings for surgical implants which can improve biocompatibility and bone growth.

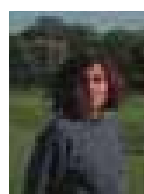
Paul Barker, D.Phil., University Lecturer in Bioinorganic Chemistry, Department of Chemistry



Paul Barker's research involves the molecular engineering of metalloproteins for electronic and photochemical devices. The ultimate goal of the work is to produce protein-based transistors that could

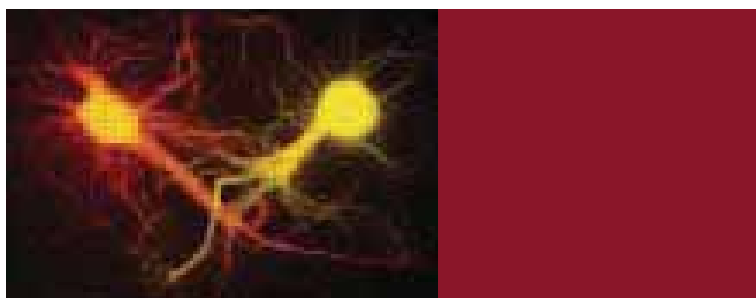
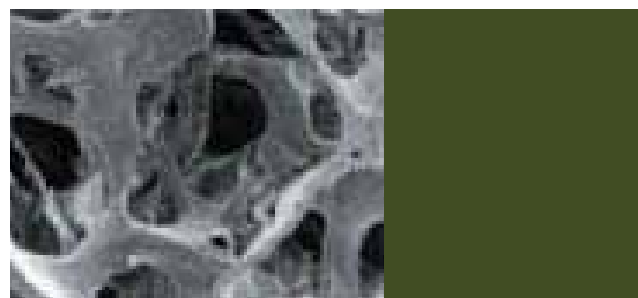
form the basis of a new generation of biosensors and, potentially, biochemical computers.

Sarah Bray, Ph.D., University Reader in Developmental Biology, Department of Anatomy

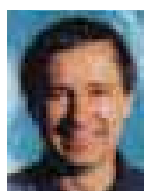


Sarah Bray's field of research is developmental biology, which seeks to understand how the body is formed. The particular focus of Dr Bray's work has been on a signalling pathway that is

important for communication between cells during development.

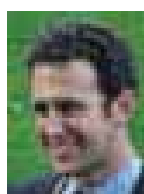


Peter Duffett-Smith, Ph.D., University Lecturer, Department of Physics



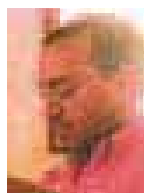
Peter Duffett-Smith is the President of the College Science Society (the Danby Society). He has written many papers on radio astronomy and several books, including the best-selling *Practical Astronomy with Your Calculator*. Dr Duffett-Smith is also a founding Director of Cambridge Positioning Systems (CPS), a Cambridge start-up company.

Marijn Ford, Ph.D., MRC Laboratory of Molecular Biology



Marijn Ford (1995), who was a scholar and graduate student and is now a Research Fellow at Downing, researches on clathrin-mediated endocytosis which, in nerve cells, allows the recycling of synaptic vesicles. Discovering the molecular mechanisms involved is of special interest because many viruses hijack the mechanism to gain malicious entry into the cell to cause a number of human diseases.

Chris Haniff, Ph.D., University Reader in Astrophysics, Department of Physics



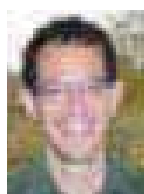
As head of the Cambridge Optical Aperture Synthesis Telescope (COAST) group, Chris Haniff is collaborating with teams based in New Mexico, Puerto Rico and at the Naval Research Laboratory in Washington DC to design, install and operate a new type of astronomical telescope. The apparatus will allow astronomers to study the formation of planets around other stars, to watch the final episodes in the lives of dying stars and to look closely at the hearts of active galaxies.

Philip Rubery, Sc.D., University Senior Lecturer in Biochemistry



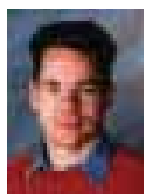
Philip Rubery's research interests are the biosynthesis of plant cell surface macromolecules, the responses of plants to pathogenic microorganisms, and the mechanism and regulation of plant hormone transport.

Neil Turok, Ph.D., Darley Fellow and Professor of Mathematical Physics



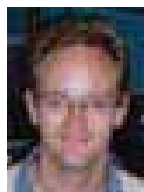
Neil Turok joined Downing in 2003 as the Darley Fellow. He is a cosmologist and, with Princeton colleague Paul Steinhardt, recently theorised that space and time may not have begun in a big bang, but may have always existed in an endless cycle of expansion and rebirth. He is helping to set up the African Institute for Mathematical Sciences (AIMS) in Cape Town.

David Wales, Sc.D., University Lecturer in Theoretical Chemistry



David Wales' research centres on the study of energy landscapes. These hold the key to resolving two of the most important contemporary problems in chemical physics: namely how a protein folds to its native state and why structural glasses exhibit a wide range of puzzling behaviour.

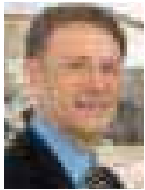
Guy Williams, Ph.D., Senior Research Associate



Guy Williams (1992) carries out research on magnetic resonance imaging in the Wolfson Brain Imaging Centre. The aim is not only to provide more effective treatment for patients with neurological and other disorders, but also to identify those people at greater risk of high blood pressure, strokes and heart attacks.



Stafford Withington, Ph.D., University Reader in Astrophysics, Department of Physics



Stafford Withington's research interests include submillimetre-wave electronics, optics and cameras, and their development as instrumentation for submillimetre-wave astronomy.

He leads a new laboratory in the Cavendish where cameras are being developed for use at locations as diverse as the South Pole, the Chilean Atacama Desert, and in space.

Professor Emeritus John Field, OBE, Ph.D., FRS

John Field came to Downing College to do a Ph.D. in 1958. He has been Professorial Fellow at Magdalene, Professor of Applied Physics at Cambridge University, Deputy Head of Department at the Department of Physics, and Head of the Physics and Chemistry of Solids Section of the Cavendish Laboratory.

Professor P. B. Garland, CBE, Ph.D., MB, B.Chir., Hon LLD, FRSE

Having switched to Natural Sciences from Archaeology and Anthropology, Peter Garland (1952) continued at Downing to complete a BChir, MB, and Ph.D. He was appointed a director of Cambridge Antibody Technology in May 1990 and became Chairman in September 1995. He was also the Chief Executive of the Institute of Cancer Research, Professor of Biochemistry at the University of Dundee, Principal Scientist and Head of Biosciences at Unilever Research Colworth Laboratory, and Director of Research at Amersham International plc.

Academic scientists

There are numerous Downing Natural Scientists who have gone on to distinguished careers in scientific research.

Nigel Birdsall, Ph.D.



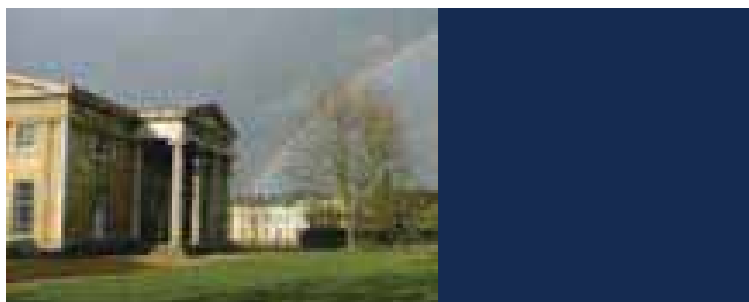
One of Frank Wild's research students, Nigel Birdsall (1961) is now in the Physical Biochemistry division of the National Institute of Medical Research. His research focuses on G protein-coupled receptors.

Malcolm W. Brown, Ph.D., FRS.

A Research Fellow at Downing (1973–1974), Malcolm Brown is Professor of Anatomy and Cognitive Neuroscience at the University of Bristol and was Head of the Department of Anatomy (1998–2004). He is known internationally for his work on the neural basis of recognition memory, and was elected a Fellow of the Royal Society in 2004.

Professor Sir Francis Graham Smith, FRS, Thirteenth Astronomer Royal (1982–90)

Francis Graham Smith (1941) graduated from Downing after war service at Malvern. He worked at the Carnegie Institute in Washington DC, at Jodrell Bank and at the Royal Greenwich Observatory, eventually as Director. He then moved back to Manchester to become Director of Jodrell Bank and in 1982 became Astronomer Royal.



Professor David Ingram, OBE, Sc.D.



A Fellow of Downing from 1974 to 1990 and now an Honorary Fellow, David Ingram is a distinguished plant scientist. He has been Regius Keeper of the Royal Botanic Garden Edinburgh, Royal

Horticultural Society Professor of Horticulture, and was Founding Chairman of Science and Plants for Schools. He is currently Master of St Catharine's College and is also a trustee of the World Conservation Monitoring Centre.

Professor Martin Kemp, D.Litt, FBA



Martin Kemp (1960) studied Natural Sciences and Art History at Downing and at the Courtauld Institute, London. He was British Academy Wolfson Research Professor and is currently

Professor of the History of Art at the University of Oxford, having spent most of his previous career in Scotland (Universities of Glasgow and St Andrews). The continuing theme of his research has been the relationship between scientific models of nature and the theory and practice of art.

Professor Sir David King, Sc.D., FRS



David King was appointed 1920 Professor of Physical Chemistry at the University of Cambridge in 1988. He subsequently became Head of the Chemistry Department, Master of Downing

College (1995–2000) and is now an Honorary Fellow of Downing. His research concerns the structure and dynamics at surfaces, especially providing detailed understanding at a molecular level of the relationship between surface structure and molecular reactivity, focusing on catalysis. He is currently the Government's Chief Scientific Adviser and Head of the Office of Science and Technology.

Professor Emeritus Richard Langton Gregory, CBE, D.Sc., FRSE, FRS

Richard Langton Gregory (1947) is an Honorary Fellow of Downing College and Emeritus Professor of Neuropsychology at the University of Bristol. An expert on perception and visual and optical illusion, Professor Gregory is the author of fifteen books, including *Eye and Brain*, and has edited the *Oxford Companion to the Mind*. He has made a major contribution to the public understanding of science through numerous appearances on radio and television, and in founding the Exploratory Science Centre in Bristol and The Observatory Science Centre at Herstmonceux.

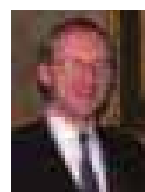
Professor Emeritus Ralph Lewin, Sc.D.

An eminent oceanographer, Ralph Lewin (1939) is Professor Emeritus of Marine Biology at the Scripps Institute of Oceanography, University of California, San Diego.

Professor Gareth McKinley, Ph.D.

Gareth McKinley (1982) is a Professor at the Massachusetts Institute of Technology in the Department of Mechanical Engineering. He is a recognised authority on rheology, fluid dynamics, mathematical modelling and experimental design for rheological characterisation.

Sir John Pendry, Ph.D., FRS



Sir John Pendry (1962) took his MA and Ph.D. at Downing. Now Professor of Theoretical Solid State Physics at Imperial College London, he has been described as the leading theorist in optical materials in the world today. He was elected a Fellow of the Royal Society and a Fellow of the Institute of Physics in 1984, and was knighted in 2004 for his services to science.



Professor Richard Weber, Ph.D.

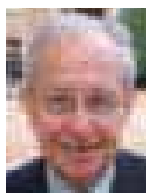
Richard Weber (1972) read Mathematics at Downing. Since 1994 he has been the Churchill Professor of Mathematics for Operational Research in the Department of Pure Mathematics and Mathematical Statistics. He is also Vice-president and Professorial Fellow at Queens' College, Cambridge. His particular research interests are stochastic scheduling, queuing theory and models in telecommunications.

Scientists in the wider world

Whilst some of those who studied Natural Sciences at Downing have changed direction within the field of science, others have subsequently pursued non-scientific careers in which they have nevertheless benefited from their scientific training. Amongst this group are many whose achievements are marked by a spirit of enterprise and innovation, and many who have reached elevated positions in their fields.

Food and chemical industries

Derek Bailey



Derek Bailey (1952) was involved in writing machine code for Unilever's first electronic computer. Commercial management in Ceylon was followed by the financing of overseas subsidiaries in London and Directorship of Unilever's Research Bureau Ltd. He later moved over to pharmaceuticals at Roche UK, where he became Company Treasurer and Secretary before his retirement.

Julian Darley



Julian Darley (1956) is a Wilkins Fellow. His illustrious career at BP took him across the globe, working in licensing (USA) and diving (UK and Saudi Arabia), and as General Manager of Liquefaction (Abu Dhabi), as CEO Engineering and Technical (UK) and as President BP Exploration (Alaska). Finally, he was Head of BP Group Research and Engineering.

Michael Gibbons

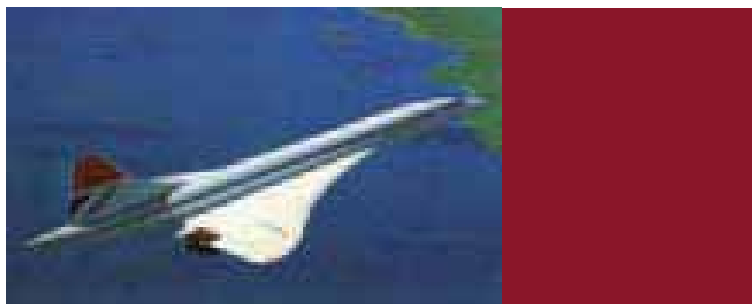
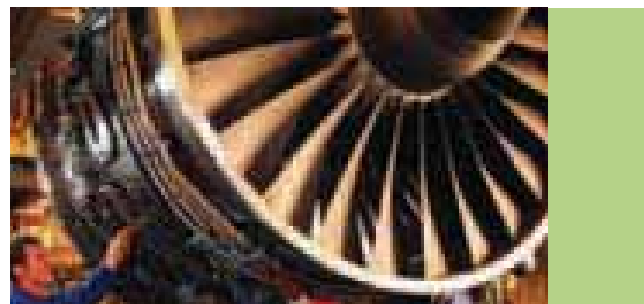


Michael Gibbons (1967) is Downing Association President 2004-5. After working for ICI, he moved to Powergen plc where he became Managing Director, Gas. He is currently a member of the independent Government advisory body, the Better Regulation Task Force.

John Hazelwood, CBE



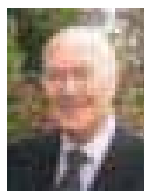
John Hazelwood (1955) joined Unilever, working on animal feeds, and after managing Birds Eye Foods in Liverpool he moved to Walls, Gloucester, ultimately becoming Deputy Chairman. He was also founding Chairman of the Gloucestershire Training and Enterprise Council, now the Innovation Centre, and is a member of the Design Council.



Aerospace and defence

Several Downing graduates and a former Master were associated with the Royal Aerospace Establishment (RAE) at Farnborough.

John Hawkins



John Hawkins (1952) managed a variety of Alcan Aluminium subsidiaries, including work on heat-resistant alloys for Concorde. Ultimately Managing Director of Specialty and Aerospace, he received the Queen's Award for Technology jointly with the RAE for the development of aluminium lithium alloys for Eurofighter and Airbus.

Graham Jordan, CBE



After World War II logistics work for the Ministry of Defence, Graham Jordan (1963) moved to the RAE as Head of Guided Weapons, then to the Treasury and Cabinet Office. He finally returned to the MOD as Science and Technology Director.

Keith Kent, Ph.D.

Keith Kent (1956) pioneered airportability with the renowned MEXE bridge at the Military Experimental Establishment, working in conjunction with Alcan. This led to the development of aircraft landing mats and aluminium armour for wheeled and tracked vehicles serving in the Gulf. He became Head of Future Vehicles at RARDE and later, Director of Defence Quality Assurance.

Sir Morien Morgan, FRS



Morien Morgan was Master of Downing (1972–1978), having been Director of the RAE at Farnborough, where he spent most of his career. He was an aeronautical engineer of world repute, masterminding Concorde and many other aeronautical developments.

John Scott-Wilson

John Scott-Wilson (1946) joined the RAE to work on the first UK large-scale supersonic test facility. He moved to A. V. Roe then to Hawker Siddeley (subsequently British Aerospace). Finally, he was Technical Director of the Civil Aviation Division.

University administration

Stephen Fleet, Ph.D.

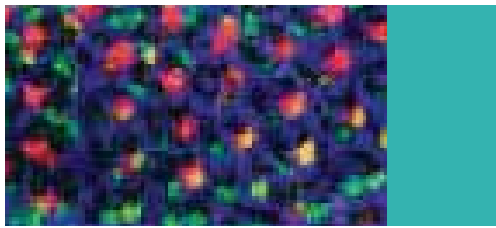


Stephen Fleet came to Downing in 1974 as Fellow and Bursar. Subsequently he was Vice Master (on three occasions), then Master (2001–2003) and is now an Honorary Fellow of Downing, as well as of Fitzwilliam. He was Head of Cambridge University Administration (as University Registrar) from 1983 to 1997, and is still active as Chairman, Secretary or Treasurer of a number of charitable bodies.

International civil service

Eugene McCarthy, Ph.D.

After a doctorate at Berkeley, Ca. and a Fellowship from the Chilean Government, Eugene McCarthy (1961) joined the World Bank to head projects on energy, environment, and poverty alleviation. He was World Bank representative in Mexico and led the World Bank disaster management and recovery teams in the wake of El Nino and Hurricane George.



The church

John Biggs, Ph.D.



During 30 years at Hull University, John Biggs (1952) undertook research on the synthesis of liquid crystalline materials and also served as Dean. He became President of the

Baptist Union and was the first lay person to be elected Moderator of the Free Church Council. He also works for the Cambridge University Examinations Syndicate, having been originally recruited by Frank Wild.

Law

Julian Jeffs, QC

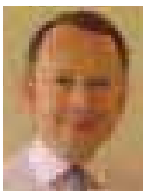


An Associate Fellow of Downing, Julian Jeffs (1950) is a member of the Inner Temple and Recorder of the Crown Court, and is an adviser to Government on Industrial Property. He is a world-

renowned expert and author on Spanish wines, especially sherry.

Finance

Peter Kiernan

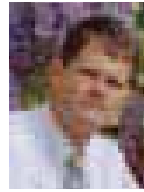


Peter Kiernan (1979) trained as an accountant with Peat Marwick, then moved to Warburg as a Director, subsequently becoming Managing Director at UBS Warburg after the Swiss

acquisition. He was then appointed Managing Director of Goldman Sachs' Investment Banking Division. He recently joined Lazard as Managing Director and Head of UK Investment Banking.

E-commerce

Andy Phillipps, Ph.D., MBA

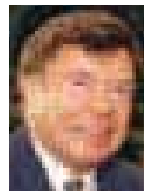


Andy Phillipps (1987) was employed by the US steel Industry, BOC and Cookson, before co-founding Active Hotels Ltd, which became the largest online hotel reservation company

in Europe and was recently the subject of a successful takeover.

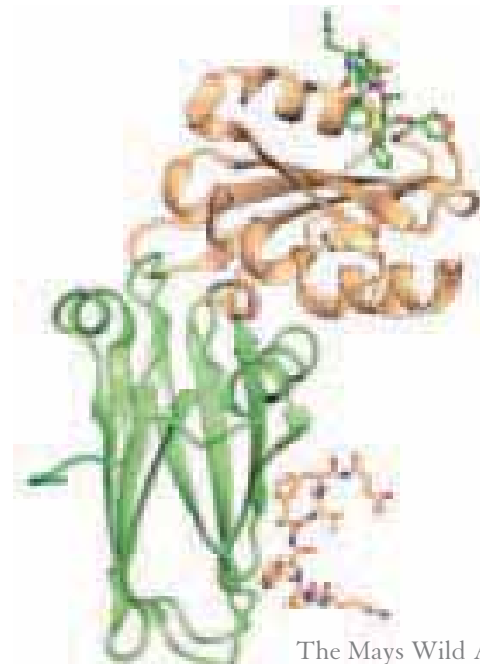
Pharmaceuticals

Alan Howard, Ph.D.



Frank Wild's first research student, Alan Howard (1948) was a nutritionist at the MRC Dunn laboratory, the Department of Pathology and the Department of Medicine in Cambridge. He was

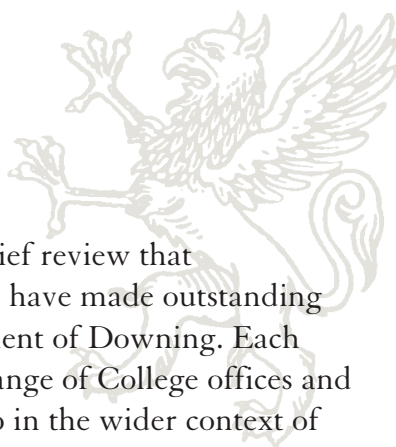
appointed Chief Examiner in A level chemistry, taking over from Frank Wild on his retirement. The worldwide success of his Cambridge Diet enabled him to establish the Howard Foundation and to become one of Downing's chief benefactors. He is an Honorary and a Wilkins Fellow.





“The success of the Fellowship and of Downing scientists worldwide is in large part a reflection of their efforts and inspiration. Their gift to us has been great.”

Afterword



It will be evident from this brief review that Frank Wild and Martin Mays have made outstanding contributions to the development of Downing. Each contributed through a wide range of College offices and duties and was influential also in the wider context of the University. In conjunction with several Masters and many colleagues, Frank and Martin watched over the College intake, nurtured its development and maintained an active interest in the developing careers of Downing graduates. The success of the Fellowship and of Downing scientists worldwide is in large part a reflection of their efforts and inspiration. Their gift to us has been great.

We hope you will be inspired by this brochure to give generously in support of the Mays Wild Fellowship Fund in order to ensure the continuing excellence and growth of Natural Sciences in Downing. That will be our gift to the future.

John Hawkins
Mays Wild Appeal Committee

If you would like to make a donation to the Mays Wild Fund and would like a donation form or information about tax-efficient giving, please contact:

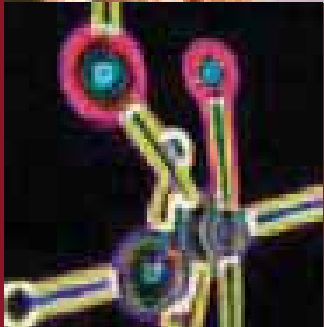
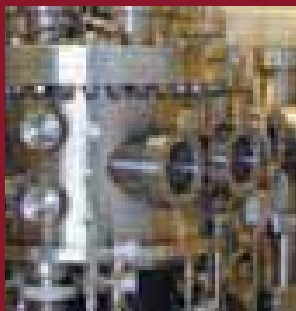
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A fuller chronicle of the achievements of Downing Natural Scientists will be found at:
www.dow.cam.ac.uk/~do/mayswild

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