the brick

A QUIET REVOLUTION

With all the publicity over admissions, 'Access', league tables, top-up fees and a dozen other headline-grabbing issues, it's easy to lose sight of what's happening in the study, library and laboratory. In this real academic world, there is constant change and development — often far more important than the stuff of front-page news stories. One such change is the emergence of an entrepreneurial culture amongst Oxford's scientists. It is a quiet revolution, and one in which members of Keble are playing a leading role.

Oxford science is no stranger to business. There is a long tradition of companysponsored research: Keble, for example, has the Rolls Royce Fellow in Engineering



Science. But, until relatively recently, science and business were uneasy partners. From

academic perspective, commercialisation regarded with suspicion: it might lead to conflicts of interest or deflect energies from academic duties, and there lingered a deep-seated prejudice against 'trade'. Business, on the other hand, wanted to control the direction of research to protect and develop established products and markets.

And yet, in the past three years, 16 high-technology based spinout companies have been created; the University files, on average, one patent a week; and a £25mn Business and Science Park has opened.

In November, the Chemistry Department announced an innovative financing for its new £70mn Building in which Gregory, a Beeson investment bank specialising early-stage technology companies, invested £20mn in return for half the University's equity entitlement companies spun out of the Chemistry Department over the next 15 years.

Where does Keble feature in all this?

- Lionel Tarassenko (1975, Engineering Science), now Professor of Electrical Engineering, played a leading role in the formation of Oxford Biosignals and ThirdPhase Ltd
- Mike Brady, Fellow of Keble and Professor of Information Engineering, has three spinoffs to his name with a current value of £13mn
- The College has invested £500,000 in the Isis College Fund, which provides earlystage financing for Oxford technology spin-offs
- David Norwood (1988, History) is the investment banker who put together the Beeson Gregory tie-up with the University's Chemistry Department

According to Mike Brady, 'The real cutting-edge science is in tackling problems in everyday life. What gives me a huge buzz is seeing my research put into practice.' His introduction to spin-offs came in 1994. He had been working with GEC on laser guided autonomous vehicles.

GEC decided to drop the project. Brady and his GEC collaborator set up their own company — Guidance Control Systems — to carry on the research and development. Among GCS products



now in use are a sensor device allowing oil tankers to dock more safely and an electronic tag enabling prisoners to be given early release on parole. Brady's latest venture, Oxiva, also came into being because established companies wouldn't take up his research, this time into techniques for the computer analysis of mammograms. 'We tried to give the software away but no-one wanted to know. Now, a book and three patents later, they want to buy the company for half a million!'

Brady and his fellow entrepreneurs are being closely watched by the Isis College Fund for possible investment opportunities. The Fund raised £10.7mn in September 1999, and has already invested in three spin-offs; Ópsys – a developer of flat screen technology; Oxagen - which researches therapeutic and diagnostic approaches to diseases using large scale family genetic studies; and Avidex - a spin-out from the Molecular Immunology Group which researches into the basic mechanisms of the immune system.

Not, perhaps, the stuff of headlines, but potentially of far greater significance to the College, the University, and people all over the world than what fills many front-pages.



DIARY

JAN 14

Hilary Term Begins

London Dinner

26

Cavalry and Guards Club, 127 Piccadilly, London W1. Details are on the Booking Form included with The Record 2000 or contact the Development Office. **F**EB

16

Richardson Lecture

22

Trinity Term Begins

5.30pm, Pusey Room. Lecture by Dr Ian Archer, Fellow and Tutor in Modern History Elizabth I and the Politics of Gender. All Old Members welcome. London Drinks Party

22

Home House,
Portman
Square, London.
Booking Form
included with
this edition of
the brick.

MARCH

16–17

Quinquennial Reunion

Quinquennial Reunion for Old Members who matriculated in the years 1960–4 inclusive. If you have not received your invitation, please contact the Development Office



APRIL

22

St Mark's Dinner

St Mark's Day Service in Chapel is followed by Dinner for present members of College, including all classes of Fellows.

MAY

19

MA Degree Day

Invitations will be sent out in January 2001 to Old Members who matriculated in 1993. 26

Garden Party

Old Members may apply for tickets from the Development Office. Invitations will be extended to second year undergraduates and first year graduates to invite their families.

JUNE

23 Keble College Ball

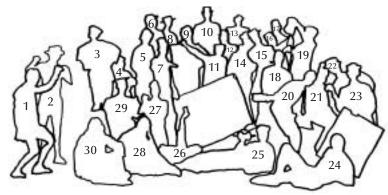
Application for tickets can be made to the Ball Committee through the Development Office.



COMPETITION CORNER

The full line up in the photograph in issue 19 is as shown.

Congratulations Guy Sutcliffe (1958) whose entry most nearly matched the line up provided by our judges, both of whom are in the photo. Philip Darley (1958) won the caption competition L'heure heureuse sur I'herbe with apologies to Edouard Manet! Dinner for two at High Table awaits both winners.



1 C R Airey
2 J J Smith
3 G C Bjork
4 D W Crossley
5 P J Darley
6 J B Dyson
7 G Radford

8 A G Harland

9 J R Chester 10 I L Elliott 11 D G Gittos 12 D L J Watts 13 M B McDermott 14 C J R Willis 15 B M Rowe 16 J K Russell

17 R H Mann? 18 T D M Hart 19 J R Killick 20 T D Denner 21 J I McDougall 22 N D Tinne 23 G R N Cusworth 24 M R G Sutcliffe 25 J D Wright 26 R Stenson 27 J Boyd 28 D W Shaw 29 P Jennings

30 J L Wolfenden

THE BRICK INTERVIEW: RICK MATHER

Guy Collender interviews Rick Mather, the architect of ARCO and the new building to be constructed in the Fellows' Garden.



How have you tackled the challenge of building alongside Butterfield?

You have to adopt a design that is efficient on the site, with some means of organizing the buildings, without just aping the existing style. By pushing it to the edge of the Fellows' Garden, the building in effect becomes a garden wall — similar to

Butterfield's clever original plan. The thing that unites the complex is the outdoor room that you create. With the lowering of the lawn in the Fellows' Garden, this sense of enclosure will increase. Material wise, we picked out the brick pattern and rich texture of the original wall, using the same red brick as on ARCO, so that it all ties together.

Describe some of the low energy features you have incorporated.

In ARCO, the main feature of the staircase carries through our low energy policy — the lights shine both up and down, so you get twice as much light. You need virtually no heat in there. If you do want some more heat in your room, you just invite a friend around to generate a bit of body heat! The stale air that is pulled out passes through a heat exchanger and the latent heat from that is introduced into the fresh air which is constantly coming in. There is absolutely no re-circulated air. It is quite easy to take the latent heat from the stale air and transfer it to fresh air without mixing the two.

In the new building, it is going to be even more sophisticated because you have got the bigger problem of keeping 250 people in the theatre cool, as well as the music room and the dining room, so you couldn't do it just by natural ventilation. Piles will be driven into the ground, within which there will be rods going down—hollow tubes—and they will have water circulating through and that will keep the whole place cool even on the hottest days.

How have you designed the theatre, the centrepiece?

There will be a lot of glass. It will be quite fun because at the interval, at the press of a button, roller blinds can go up and the whole thing will be opened up to the garden. The other nice thing about the theatre is that it is totally flexible. It has these seats that pull out or fold back and it has a gallery around two sides so you can use it for a dining hall or as a nightclub.

Do you have a pet name for the new building?

Yes, K2!

Was it difficult to obtain planning permission?

I understand that the architects on the Council voted unanimously in favour of the design.

Did you know that ARCO is often compared to a spaceship?

Oh really! I haven't seen many brick-clad spaceships. I like the curved walls. I am a real sucker for a curve. Some people looking at the plan liken it to a snake that has just eaten a rabbit because the idea of the plan was that you take the building and then you jam a staircase in the middle that bulges it out and makes an interesting shape outside and that makes a curved shape inside. I didn't know about the spaceship.

Of all your projects, which one are you most proud of?

The last one usually. We are working on a masterplan for the Ashmolean and that is the one I am in love with right now. The South Bank is very, very exciting. It is very political and it is lovely to work on that big a scale and on something that really matters because it is the centre of London.

What do you enjoy doing in your spare time?

I like gardening, skiing, going to France. Some people do crossword puzzles — my equivalent is looking at a site and figuring out what I would do. I like going around to friends' houses and figuring what I would do with them. The worst thing is telling people what they ought to do with their house — it's more fun just to speculate. I like doing design, I love it.

Do you regard the College as having a particular ethos or atmosphere?

We have never had a nicer client. Perhaps because they are academics, they like talking about ideas and the bigger picture behind what we are doing — that isn't always the case with people and they are idealistic about what they want to do, as well as being practical.

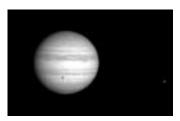
By JUPITER!

Paul Parrish was born in California, raised in Alaska, schooled in Florida, New Mexico, and Washington DC, Undergraduate in Space Sciences at Florida Institute of Technology, now PRS at Keble and currently MCR President.

If you have yet to plan what you will be doing as we enter the new millennium, let me tell you about my plans which have been three years Jupiter with, in the making.

Jupiter with, to the right, Europa. The black spot is Europa's shadow.

Launched in October 1997, the Cassini–Huygens spacecraft has flown the circuitous route around Venus twice, and Earth once as it cruises towards its destination at the planet Saturn.



However, on December 30th of this year, the Cassini spacecraft will make a close approach to the giant planet Jupiter. The close approach is necessary as the spacecraft gathers further momentum in order to propel itself to its destination. As an added benefit, since Jupiter so closely resembles Saturn, all of the experiments aboard the spacecraft will be turned on and tested during the encounter.

The instrument I work on is the Composite Infrared Spectrometer. With this instrument, we hope to determine the three-dimensional temperature structure and gas composition of the planet and some of its selected features (like the famous Great Red Spot). A lot of my project has to do with radiative-transfer modelling where we consider how light is scattered and absorbed, depending on the cloud structure and atmospheric chemistry of the planet.

Unlike the recent Mars missions, Cassini–Huygens is not approaching the planet at a dangerously shallow angle and because of this wide berth, the spacecraft will retrieve data from early October 2000, to March 2001. This will ensure a busy winter, but a wonderfully memorable millennium celebration.

Prometheus-bound



Emma Campbell (3rd Year English) reports on her visit to Georgia this summer

My trip to Georgia was inspired by the story of Nika, who removes mentally and/or physically handicapped children from the appalling conditions of Georgia's state-run institutions and

brings them to live with him in his dilapidated house in the foothills of the Caucuses. His ambitious scheme, 'Prometheus', however, is expensive both in terms of finance and human resources. Our intention was to determine how an Oxford volunteer scheme could aid the fulfillment of the project's primary needs.

Nika's goal is to establish a working community for these people, to give them the experience

for these people, to give them the experie



James Hayduk, Keble's only geologist, undertook his summer mapping project in north Spain. With the generous help of a Keble Association Travel Bursary, James spent four weeks mapping an area around a small mountain town called La Pola de Gordon near León, 250 miles north west of Madrid. The limestone landscape was breathtaking but had its fair share of hazards including poisonous snakes, steep cliffs and wild dogs.

of living and purpose that Georgian society at present can neither offer nor even comprehend. The handicapped are considered a burden; people are only now beginning to be educated about their problems and needs, and thus they are often regarded as sub-human. Children with defects as minor as squints and hair-lips are abandoned to dismal futures in state-orphanages and homes around the country.

'Freedom to live' is the simple ethos upon which 'Prometheus' is founded. There are fifteen members of the family, of various ages and mental and physical disabilities. In my brief time with them I saw for the first time what it means simply to live. They cook, work on the land or with the animals, eat and sleep, and are completely content. Disability is irrelevant in this environment; each is accepted as a valuable individual, free to form relationships according to natural human desire. Is a recently gave birth to her second son, Pedro. Torne, her elder son is a gorgeous little boy who, like his father, is slightly mentally retarded. At the moment the state of Pedro's mental health is indeterminate. The fact is that within this environment of unconditional and pure acceptance it simply doesn't matter.

Since returning to England we have established TravelAid, a new University society designed to offer students voluntary work and travel opportunities in those few remaining untouched areas of the world such as Georgia.

SWEENEY TODD



Sweeney Todd, the theatrical highlight of the term, was performed in 6th Week at the Oxford Playhouse. Sondheim's musical about the Demon Barber of Fleet Street saw Katy Brand, who graduated from Keble this summer, playing the role of Mrs Lovett, the infamous pie shop owner. Katherine Rice-Oxley played Johanna, and Choral Scholar Andrew Marshall was a tenor in the chorus.

Sullivan's Church Music

Robin Wilson (Fellow in Mathematics, co-author of Gilbert and Sullivan: the D'Oyly Carte Years) reviews the Choir's new Sullivan CD.

Keble College has a long association with the music of Sir Arthur Sullivan. Some years ago there was a Sullivan symposium at Keble, at which his oratorio The Light of the World was sung in the College Chapel. Now, as part of the commemoration of the centenary of his death, the Chapel Choir has made a recording of some of his church music.

This is the Choir's fourth CD, and it deserves to be as well received as its predecessors. Within a week of its appearance, extracts have been played on Radio 3 and Classic FM, with the promise of more broadcasts to come.

The CD contains Sullivan's Te Deum and Jubilate, three items from his oratorios, his attractive setting of Lead, kindly light, and a number of anthems. Many of these pieces



have not previously been recorded, and all receive sensitive disciplined performances under the direction of the senior organ scholar, Mark Laflin. The diction and the balance between the voice parts are usually good, and

the organ accompaniment of Gavin Plumley is well judged throughout. All concerned are to be congratulated on a fine recording which will give much pleasure to Sullivan enthusiasts and others alike. Special mention must be made of the extensive and well-written CD notes by William Parry (1992).

VIDAL SPARK

Benjamin Hewitt (2nd Year Classics) recalls his recent encounter.

Meeting Gore Vidal was exhilarating, thought provoking and completely terrifying. Vidal, now 75, wrote a bestseller at 21 and at 23 his third novel was called 'a masterpiece' by Thomas

Mann. What cemented my terror though, much more than his enviable easy charm and essayist's critical powers, was the passion with which his enemies loathe him — figures as diverse as the scabrous Truman Capote, prize-fighting Norman Mailer and radical conservative William F Buckley Jr.

I met *il maestro* — as he is called by the villagers of Ravello, where he lives for most of the year - because I was going to interview him for the cover article of Isis. Ostensibly, Vidal was at the Oxford

Union to promote his 7th Narratives of Empire novel, The Golden Age. Really, he was in Oxford because America was going to the polls and Vidal is uniquely qualified to discuss America, having been a policy advisor to JFK, run for Congress in 1960 and he has a cousin some might know called Al Gore.

In the Debating Chamber, Vidal was customarily dry, irreverent, witty and elegiac. He flicked away an impertinent upstart in the Q&A period. When he spoke to me he was charming, personable, sharp, aristocratic. He told me he was 'working on an 8th Narratives novel, set in 2000' which I am as eager to devour as he was to return to.



The Times ✓ 21 October 2000

6 & 7 April

Choral Evensong, Guildford Cathedral

8 April

Eucharist & Evensong, Salcombe Parish Church

9, 10 & 11 April

Eucharist, Truro Cathedral (with Choral Evensong on 11 April)

27 April

Choral Evensong, Westminster Abbey

21 to 26 August Services in St Patrick's Cathedral, Dublin



SPORT

Cogito, ERGO sum

To encourage the enthusiastic novice rowers after the disappointing cancellation of Christ Church Regatta, KCBC held an Ergo challenge.



Impressive times were recorded over the 1km distance, with the winners Jasper Hasell and Sarah Mulryan clinching victory in 3'11" and 3'53" respectively.

Super Swimmers

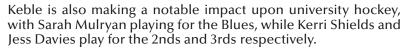
Swimming Cuppers was held at the Temple Cowley Pool on Saturday of 4th Week. Illness left Keble unable to field a female team, but the male team produced a strong result, coming 5th overall. Tim Daley demonstrated his versatility, earning a place in both the back-crawl and butterfly finals, as well



as finishing 4th in the freestyle final. Likewise, Jasper Hasell reached the freestyle and breaststroke finals. Guy Collender, joined Jasper in the latter event and 5th and 6th places were secured respectively. Andrew Greaves and James Hughes swam well and were indispensable in the relays.

Hockey Triumphs

Competent captaincy by Jo Hensman and Toby Conlon has secured impressive results as all of Keble's hockey teams remain undefeated this term. The girls have perfected their shooting skills, as was shown recently when they trounced Jesus/Lincoln 5–0 and the men can rightly draw great encouragement from their 3–0 victory over the top league team, Brasenose. The fusion of both teams in mixed Cuppers looks promising, following a 1–0 win over Christ Church.





Good Try

The clash of the top teams in Women's Rugby in Cuppers 2000 took place on St John's pitch. Despite a promising start weatherwise, the clear skies did not last long, turning the tournament into a mud bath — much to the delight of many of the spectators.

Keble won their section with an emphatic win over Wadham 25-0. This match gave



the side plenty of opportunity to demonstrate wellchoreographed try celebrations. With strong forwards and pacy backs, Keble looked set to be the team to upset champions St Edmund Hall, especially with scrum-half Hattie

Dean who often gave the Hall trouble on the wing. However, over-hesitancy in defence meant a comfortable win for the Hall.

Badminton

Damien Coles and Russell Hopkins both represented the successful University badminton



1st team which reached the quarter finals of last year's British Universities Competition. This year, the team, now captained by Damien, will be joined by Philip Linnard who will play with Russell in the University's 1st doubles pair. So far this season, the team has enjoyed victories against a strong Warwick side and a win against Cambridge, which

they will aim to repeat during the Varsity Match in Hilary Term.

Stop Press

Keble Football 1st team beat Trinity 7–1

We exchanged the hustle and bustle of Kathmandu for the foothills of the Himalayas. For the next 21 days, we trekked east over towering forest ridges and valleys before turning north towards Everest. The path twisted and turned out of the forest as we gained in altitude through scrubland and above the snowline. Within one day's walk of our objective, the valley was hit by a storm and snow fell for 2 days. Just as despair set in, the clouds lifted and, setting off early to avoid avalanches, we chanced pushing up to the peak, Gokyo Ri, at 5350m. We were rewarded with a clear view of Everest, and a magnificent 360° panorama of Himalayan peaks and glaciers. We flew back to Kathmandu from Lukla, a small mountain airstrip built by Sir Edmund Hillary. An unforgettable trip.

Everest visible in the background on the right.



No Small Feat

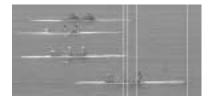


Rachel Small (1995) is currently working as Fundraising & Communications Officer at Childhood First, a charity which provides care and support for abused, neglected and deprived children. The charity has 20 guaranteed spaces for the next Flora London Marathon (22 April 2001). If any old or current members feel brave enough to join this challenge and raise money for a good cause, then Childhood First can offer fundraising tips and training advice. For more information, contact

Rachel on (020) 7928 7388 or r.small@peperharow.org.uk

Photo Finish

Congratulations (and sincere commiserations) to Ed Coode (1997) who tantalizingly missed the medals in the coxless pairs at the Sydney Olympics this summer. Could it have been any closer?



Athenaeum Drinks

The second drinks party at the Athenaeum was held in September, kindly hosted once again by John Grieves (1955). The party was attended by 77 Old Members whose year groups spanned 1934 to 1995.

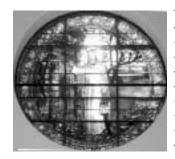
Old Members in Print

The Story of Burgess Park by Mr T Charlesworth (1973). A large under-appreciated South London space. Published by Groundwork Southwark Feb 2000. ISBN: 0953750100

The Way It Worked and Why It Won't: Structural Change and the Slowdown of US Economic Growth by Professor Gordon Bjork (1957). Published by Praeger 1999. ISBN: 0275965325

AND FINALLY...

Light of the World, USA



This image of a stained glass window was sent by four organists from Flemington, New Jersey, who visited the College in the summer with the express intention of viewing the Light of the World. At the time, it was in Tate Britain but fortunately, they were able to visit the exhibition, so their journey was not wasted.

This window which can be found in the Presbyterian Church in Flemington, was inspired by Holman Hunt's familiar original; it was designed and crafted by Louis Lederle of Spiers-Lederle of New York and given to the church by Mrs Elizabeth S Emery, in memory of her husband, W E Emery in 1916.

The light is such that even on a dark day, the lantern is always lit.

Magnolia Marathon

Group letter from the eight Magnolia Grandiflora recently admitted to the College.

To whom it may concern

When my friends and I took up the invitation to come to Keble, we were under the impression that, when offered a place and accommodation, there would be a certain permanency about this arrangement. How wrong we were.

As part of the new annual intake, we thought that we would be given a room, lodgings and food as befitted our position. After all, we had worked hard to get here. For two months, we sat in a row in the Fellows' Garden feeling very forlorn, whilst discussions raged as to the eventual colour of our pots. Then two of us were taken to Pusey Quad to be 'tried out' for colour and height against the Library wall, on either side of a couple of benches. Although people said how nice we looked, clearly, we can't have been quite the thing, because we were then returned to the Fellows' Garden.

Suddenly, one day, we were all on the move again, this time back to Pusey to be imbedded in our plastic pots in the flower bed, still warm following the eviction of the roses. What a relief to be together again! Needless to say, it was not to last. Since then we have been on barrows, trucks it is enough to make you feel quite dizzy. We had three weeks in the bed beside the Lodgings but now we are off to the Parks Department to be housed there over the winter until our rooms are finally ready. We have been assured by the Bursar that we will be properly admitted in the New Year. We dread it when we wake up in the morning and see someone

Come next year, they will expect us to flower as if nothing had happened. We will see about that.

Keble Barge

The picture of the Barge in issue 19 prompted a number of letters — here is a short summary of those letters.

The Keble Barge was built in 1898 by Salter

Brothers of Oxford, a late example of the type so familiar on the River at that time. It was used by the College until 1958, when it was declared unsound. The current style of boathouse was deemed more practical and the condition of the barge had been allowed to deteriorate. It was



acquired by the then Head Chef, Mr W T Davey, who attempted to take it to a mooring by the Iffley Watermeadows. Sadly, it collapsed in transit and he was forced to beach it. Rumour has it that at some point thereafter, the barge was used as a chicken shed but this has not been confirmed. In 1973, a portion of the starboard section was salvaged by the City of Oxford Museum, restored in its workshop and now forms part of a permanent display. Whilst it is a great pity that it was allowed to decay, it is pleasing to know that there is a full scale model of the barge in the City of Oxford Museum and we are attempting to borrow it for display in the College during Eights Week 2001.

John Lange, the Curator of City of Oxford Museum, would be very pleased to hear from anyone prepared to record memories of the Barge and life on the River, as part of the Oral History he is compiling. He can be contacted at the Museum on (01865) 252795.

the brick is written, designed and produced by current and old Keble members, with the assistance of the Keble Development Office. • Editors: Guy Collender and Karen Parton. Contributors: Roger Boden, Emma Campbell, Damien Coles, James Hayduk, Benjamin Hewitt, Nicola Huggett, Paul Parrish, Gavin Plumley, Rachel Wakefield, Robin Wilson. Photography: Seren Griffiths, Matthew McDonnell. Producer/Designer: Nick Perry/amulation. Development Office: Isla Smith, Denise Battisby • Published by Keble College, Oxford. Printed in the UK by Hall the Printed Oxford. Distribution Services by Able Types, Oxford. • the brick is copyright © 2000 Keble College, Oxford, OX1 3PG. All rights of the individual contributors are reserved. No part of this publication may be reproduced or translated in any form, by any means mechanical, electronic or otherwise, without prior consent of the publisher. The views expressed are those of the writers and do not necessarily reflect those of the Governing Body of the College.