CAMBRIDGE SCIENCE PARK
40 years of collaboration 1970-2010

40th anniversary special edition
Summer 2010

catalyst

CAMBRIDGE SCIENCE PARK NEWSLETTER

Celebrating the Cambridge Science Park's 40th Anniversary • 1970 - 2010

Above: the first company, Laser-Scan, moves onto the Park in 1973

Above: assisted by Sir John Bradfield, Sir Alan Hodgkin, Lord Butler and Lord Adrian plant three trees to commemorate the opening of the Park

Above: Cambridge Consultants moves onto the Park in 1979

Foreword

Welcome to this 40th anniversary special edition of Catalyst, the newsletter for Cambridge Science Park.

2010 is a landmark year for everyone involved with Cambridge Science Park, as we celebrate the passing of four decades since Trinity College, guided by Sir John Bradfield as Senior Bursar, took the pioneering decision to create a place where hi-tech industry could establish itself and benefit from its proximity to our world-leading University.

Since that time, we've seen the Park grow and flourish to become a world-renowned hub for hi-tech development. In this special issue of Catalyst, we have talked to some of our longest-serving tenants – Biochrom, Cambridge Consultants and Napp Pharmaceutical Group – about how they've grown here on Cambridge Science Park. We've also included the address by Lord Rees, Master of Trinity College, at the recent 40th anniversary celebration dinner.

I would like to take this opportunity to thank all the companies past and present who have helped to make Cambridge Science Park the success it is today. There's much to look back on with pride, but equally much to look forward to.

Rory Landman, Senior Bursar, Trinity College

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A **history** of **innovation** and **collaboration**

1970 – 2010

1440: Henry VI gives the Chesterton Tower Estate (including what is now the Cambridge Science Park) to King's Hall

1546: Henry VIII merges King's Hall with Michaelhouse to form Trinity College

1944: The site is used by tanks preparing for D-Day landings

1969: The Mott Report suggests boosting the hi-tech industry in Cambridge

1970: Trinity College decides to develop the Cambridge Science Park

1971: Planning permission granted for 14 acres

1973: The first company, Laser-Scan (founded in the famous Cavendish Laboratory), moves onto the Park

1979: 25 companies occupy the 58-acre Park

1981: Completion of the iconic Napp building

1984: First Innovation Centre opens to provide facilities for start-up companies

1999: 64 companies and 4,000 employees work at the Park

2000: A joint venture with Trinity Hall sees the development of a further 22 acres - Phase 6

2000: The Trinity Centre opens, providing conference and leisure facilities

2005: A new Innovation Centre opens in building 23

2010: The Park is now home to over 100 companies employing more than 5,000 people on 152 acres with over 1.5m sq ft of buildings

The 40th anniversary dinner: a celebration of ideas

On 20 April 2010, Trinity College held a celebratory dinner to mark the 40th anniversary of Cambridge Science Park. The Master and Fellows of Trinity College invited current and former tenants alongside partners from the public and private sector who have been influential in shaping the development of the Park over the last four decades.

Below is a summary of the address by Lord Rees, Master of Trinity College, at the Cambridge Science Park 40th anniversary celebrations

This is an occasion to celebrate one of the special aims of the Science Park: to forge links between the academics in the University and those in business.

The Science Park was a pathfinding venture some 40 years ago, when it spearheaded the Cambridge Phenomenon – the union between university and hi-tech companies. This has benefited both the University and the nation – a model followed by other world-class universities.

Amongst others we welcome here this evening David Silver and Christopher Mitchell of Napp Laboratories, Philips Electrical, Amgen, Genzyme and many smaller, up-and-coming enterprises. Here too are Cambridge Consultants, who have been highly influential in the development of the Cambridge Phenomenon.

Welcome also to the representatives of four local authorities with whom we've had such constructive relations over the years, and our long-standing friends from Trinity Hall and St John's.

Why has Cambridge Science Park succeeded? There are lots of reasons. It's got a pleasant low density site. The accommodation is varied in size – from a single room unit to a 200,000 sq ft building – and the leasing arrangements – from short to long term – are equally flexible.

Then there are the amenities – like the Trinity Centre, Fitness Centre and Squash Courts. But we like to think that the association with the University, and with Trinity in particular, has made a big difference.

Cambridge is one of the world's great universities, and Cambridge's cumulative record is astonishing. It goes back to Newton – he was the greatest intellect of the last millennium – but it is also the University of Darwin, Clerk-Maxwell, JJ Rutherford, Keynes, Crick and Watson. Two of the greatest physicists in history – Newton and Maxwell – were also Trinity men.

Left and right: Guests at the 40th Anniversary dinner

So how did the Science Park come about? Much of the land on Milton Road was given to King's Hall in 1440. King's Hall was one of the two foundations (Michaelhouse was the other) that were merged to make the present Trinity College in 1546. The land was farmed for 500 years, but became a tank marshalling yard during World War II, and was left derelict thereafter.

In the 1960s there were influential moves to engage universities with industry – principally Harold Wilson's speech on the "white heat of technological revolution". And in 1969 a university committee chaired by Sir Nevill Mott recommended a moderate growth of hi-tech industry in Cambridge.

As a result, Sir John Bradfield, then Trinity's Senior Bursar, persuaded the College to develop Milton Road into the UK's first science park. Moreover, he got this agreed within twelve weeks of the Mott Report.

John Bradfield was pivotal to the Park's growth over the next 20 years, overseeing all the developments and contacts. He was succeeded by Jeremy Fairbrother and now Rory Landman, but John's contacts throughout the University and in the wider world have been crucial in establishing partnerships and collaborations.

What's the present mix on the Park? There are about 100 tenants, big and small. There's an increasing amount of biotech, together with pharmaceuticals, a wide range of software including financial and geographical systems, some hardware, some superconductor applications, scientific instruments, contract research, the Royal Society of Chemistry, and patent agents. Two University sub departments – microelectronics and photonics – have also been located there.

The Park has inspired many imitators. And it has attracted national and international publicity, visiting dignitaries: several prime

Above: Lord Rees, Master of Trinity College

Above: Guests in the Hall at Trinity College

"On behalf of the tenants of Cambridge Science Park, we're delighted that you've invited us to celebrate this 40th anniversary of the inception of that idea. We're delighted that you have executed it in the way that you have – the flexibility, the responsiveness to the needs of the tenants that Trinity has always demonstrated. We've all benefited hugely from that vision over the last 40 years."

David Silver, Napp Pharmaceutical Group

ministers, foreign royalty, and of course Trinity's own royals, our two honorary fellows, the Duke of Edinburgh and Prince Charles.

Over the years we've accumulated many debts of gratitude, in particular to our original building team of architects Charter Partnership, engineers Scott White and Hookins and quantity surveyors NTN.

I must also thank our solicitors Mills & Reeve and property consultants Bidwells, especially Sir Francis Pemberton, who played a key role at the start, and John Tweddle, who has steered Park developments superbly, as well as advising for many years on Trinity's real estate portfolio.

In conclusion, I would like to say why Trinity can be so proud of its initiative in founding Cambridge Science Park and promoting its key role in bringing together academia and hi-tech innovation.

The cluster in which Cambridge University is now embedded is a magnet for talent. Within this cluster, success breeds success. It is a dynamic and interactive community that offers "a low risk place to do high risk things". The most effective knowledge transfer is via the percolation of people within the networks that Cambridge provides.

The UK can never compete with the Far East on costs, but only by leading the race towards greater sophistication. This country's future is

Above: Trinity College Choir perform at the 40th anniversary dinner

bleak unless we can compete at the top end of the value chain. Unless we get smarter we'll get poorer.

Competition now comes not just from the US and Europe, but from the burgeoning Far East, where the world's scientific talent and intellectual capital will surely become increasingly concentrated.

We should aim to make this country a "partner of choice" for global science and innovation – to be a magnet for mobile talent and inward investment.

We don't know what will be the 21st-century counterparts of the electron, quantum theory, the double helix and the computer – nor where the great innovators of the future will get their formative training and inspiration. But it's not wishful thinking that the 21st century will be influenced by the creative ideas that germinate here in Cambridge – and are exploited here. That's why the Science Park should be acclaimed on this anniversary. That's why its future should be even more impactful than its past.

Lord Rees, Master of Trinity College

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Lord Rees, Master of Trinity College

Above: guests in the grounds of Trinity College

History in the making

Many companies have grown and evolved on Cambridge Science Park over the past four decades – here are just a few of their stories.

Abcam is a global leader in antibodies with an online catalogue of over 60,000 products which enable life sciences researchers to reveal the secrets of genes and the role they play in health and disease. The company's origins are at Cambridge University, where Jonathan Milner, Abcam's founder and CEO, was carrying out research into breast cancer but was unable to source the antibodies he needed. An early enthusiast of the internet, he saw the potential for building a business that supplied research antibodies from an online catalogue. Establishing the company in 1998, his vision has seen rapid growth at Abcam, which has already moved four times to bigger premises on Cambridge Science Park.

www.abcam.com

Genzyme is a world-leading biotechnology company, employing over 11,000 people. The Cambridge UK site is unique in Europe for carrying out both discovery R&D as well as clinical therapeutic development. When Genzyme came to the Cambridge Science Park in 2005, it chose the site because of its strong links with Cambridge University and Addenbrooke's Hospital. Back then, it was made up of a small team of scientists and clinical/regulatory specialists occupying around half the laboratory space. Today, it is a 90-strong team and is planning for growth by building a new extension and refurbishing its existing offices in its fifth anniversary year.

Genzyme is united by a single purpose, to provide exceptional, life-changing medicines for people with serious diseases such as multiple sclerosis and cancer, enabling them to get the most out of every day.

www.genzyme.com

HLBBshaw's Cambridge Science Park office opened in 2003 and has become a recognised centre of excellence for intellectual property in the field of biopharma, and its latest success is one which will have enormous significance.

HLBBshaw Director Richard Bizley and Senior Patent Attorney Marc Wilkinson represented iPierian Inc in a successful application for a UK patent, protecting a fundamental method relating to the generation of non-embryonic (IPS) stem cells.

The grant of the patent represents a landmark in the development of the intellectual property landscape in this important emerging technology.

www.hlbbshaw.com

The Napp Pharmaceutical Group moved to Cambridge Science Park in the early 1980s and its flagship building, affectionately known as the "toast rack", has become a well-recognised symbol for the Park. It is known best for its outstanding contribution to analgesia, being instrumental in revolutionising the treatment of cancer pain in the early 1980s. Its commitment to this field continues, launching its most recent innovation last year, but it has also expanded into the fields of respiratory medicine and oncology with the same passion to make a real difference to patients.. The Napp Pharmaceutical Group is proud to be part of the Park's continuing success.
www.napp.co.uk

Owlstone In 2004, three Cambridge University researchers, Andrew Koehl, David Ruiz-Alonso and Billy Boyle, entered their new idea into a business creation competition. Now, just a few years later, they employ a team of 35 people in Cambridge and the USA, shipping real products to real customers.
They named their company Owlstone Ltd, and their innovative technology now drives a groundbreaking gas detection and analytical technology for applications as diverse as explosive detection, breath gas analysis, detection of food contaminants and toxic industrial chemicals.
It was not long before these benefits came to the attention of the US Department of Defense, leading to a $3.7m contract for the development of Owlstone's FAIMS technology into a field-deployable, reprogrammable miniaturised chemical detection device for force protection.
www.owlstonenanotech.com

Pharmorphix was founded in July 2003 as a spin-out from Millennium Pharmaceuticals and quickly established itself as a world-leading provider of solid form services (salt, polymorphism and cocrystal screening) to the pharmaceutical and biotechnology research sectors. The focus of the company is to provide clients with the knowledge necessary to successfully progress their molecules through to the clinic. Pharmorphix was acquired by SAFC Pharma in August 2006 and is now a member of the Sigma Aldrich group.
www.pharmorphix.com

The Royal Society of Chemistry originated in 1841 when the Chemical Society of London was formed by an increasing interest in scientific matters. It was granted its first Royal Charter in 1848 and became the Royal Society of Chemistry in 1980 with the amalgamation of The Chemical Society (founded in 1841), The Society for Analytical Chemistry (founded in 1874), The Royal Institute of Chemistry (founded in 1877) and The Faraday Society (founded in 1903). Headquartered in Burlington House, London, it expanded to the Cambridge Science Park in 1989. Today, the Royal Society of Chemistry has a global membership of over 46,000 and the longest continuous tradition of any chemical society in the world.
www.rsc.org

Napp Pharmaceuticals continues to evolve in the 21st century

One of its longest-serving tenants and occupier of its most iconic building, Napp Pharmaceuticals Limited is a name synonymous with Cambridge Science Park. Catalyst spoke to Clive Jones, Director of Corporate Affairs, about the company's groundbreaking history and its ambitions for the future.

More than half a century since it was founded, it is an exciting time for the 870-strong workforce at Napp Pharmaceuticals. It was recently ranked number 5 in the Sunday Times 100 Best Companies to Work For awards – an accolade that reflects the genuine enthusiasm its people share for a company which has become a world leader in pain management and is branching out into new therapeutic areas.

Ranked as the 14th largest pharmaceutical company in the UK at the end of 2009 (based on GP prescription sales), Napp Pharmaceuticals was founded by Swiss chemist Hermann Richard Napp and solicitor Ernest Alfred Clifford, and registered in the UK in 1923. Acquired by its current owners in 1966, Napp Pharmaceuticals was a relatively small operation until it began its long-standing involvement in pain management some 30 years ago, as Director of Corporate Affairs Clive Jones explains.

"1980 was a landmark for Napp because that was when we launched the first 12-hourly formulation of morphine, which was then used entirely in palliative care for the treatment of cancer pain," he says.

"Besides being a significant innovation in its own right, it was the start of a different approach to the way cancer pain was managed in the UK. It was a really important event for us and it began the relationships we've had with healthcare professionals – and through them, patients – involved in this area not just in the treatment of cancer pain but in other areas of pain management ever since."

Napp Pharmaceuticals moved onto Cambridge Science Park in 1979, originally occupying a small unit near the entrance to the Park before moving into the iconic building sometimes affectionately referred to as the "toast rack" in 1983. In 2010, it is the only large-scale manufacturing operation on the Park – making one-and-a-half billion individual tablets or capsules per year, 80% of which are exported around the world.

"Being here on Cambridge Science Park is still very important to us – we believe that people should enjoy coming to work, feel comfortable in and motivated by their workplace"

In the 1990s, the ongoing growth of Napp Pharmaceuticals meant leasing three other buildings at separate locations on Cambridge Science Park. In February 2009, however, operations were brought back to one location with the relocation to three purpose-built offices next door to its flagship building.

There is a distinctly modern feel to these new buildings – the MD and management team work in open-plan areas – which reflects the open and inclusive culture of Napp Pharmaceuticals.

"I believe that the motivation for Napp in coming to Cambridge originally was to do with its reputation for innovation, the quality of the workforce available here and of course the strength of the education sector in this area – and I think that our experience has proved it was a very good decision," Clive explains.

"Being here on Cambridge Science Park is still very important to us, as is evidenced in moving into these new buildings last year. We believe that people should enjoy coming to work, feel comfortable in and motivated by their workplace – it is all part of having a successful business.

"Because we've continued to grow, we needed to look for new buildings on a practical level. But it also provided us with an opportunity to think about our culture and create something in which our values were reflected in the environment we were offering people to work in.

"In terms of Cambridge Science Park, I think many of us who've been to other similar sites around the country would say we've never found one which offers an environment like this one. There's a feeling in the subconscious of being at the heart of a place that is really entrepreneurial, innovative, and that has this

Napp Pharmaceuticals

Above: Napp Pharmaceuticals' flagship "toast rack" building

link between Cambridge and the way people associate with Cambridge. A lot of credit should be given for the planning and design of Cambridge Science Park that has gone on over the last 40 years."

"One of the really exciting things about the next five years is the development of our involvement in respiratory medicine and also in oncology"

The move comes at a time when Napp Pharmaceuticals is branching out into new therapeutic areas as well as consolidating its market-leading position in pain management.

"One of the really exciting things about the next five years is the development of our involvement in respiratory medicine and also in oncology," Clive says. "At the moment it's a relatively small involvement in respiratory medicine but we believe there is great potential in our pipeline.

"We also have a number of what we believe are really novel medicines for the treatment of haematological malignancies. So these two new therapeutic areas of respiratory and oncology are really exciting developments and will help to shape the future of our company.

"Of course, no one is immune to the financial conditions that prevail at the moment, but I think the challenges we have faced are the same as those facing UK industry in general and the pharmaceutical industry in particular. In all walks of life, people are seeking value for money, and we work very hard to make sure that we're providing that. We're certainly optimistic and enthusiastic about the future and the role Napp can play in modern medicine."

www.napp.co.uk

Above: Napp Pharmaceuticals' new purpose-built office facilities on Cambridge Science Park

Seeing the full spectrum

The launch of its new product range is one of many reasons for optimism at Biochrom

One of the first companies to take up residence on Cambridge Science Park, Biochrom has continued to develop world-class scientific instruments for use in a wide range of settings for 40 years. Catalyst spoke to Managing Director James Heffernan about the company's evolution and its ambitious plans for the future.

Measuring light in its different forms is critical across a wide variety of scientific, industrial and technical processes. Biochrom's range of high-quality instruments are used to meet some of these diverse needs in laboratory and industrial settings right across the world, as Managing Director James Heffernan explains.

"Our spectrophotometers can be used in almost any laboratory setting, including industrial, pharmaceutical, academic and hospital environments, for a variety of tasks from looking at dyes to analysing proteins and DNA," he says.

"Amino acid analysers are mainly used in either hospital or industrial settings. With the former, they are found in clinical metabolic laboratories, where they are used to help diagnose severe metabolic disease. For example, these instruments can help to detect metabolic abnormalities in newborn babies, so that with the right treatment they have a better chance of survival. In industry, amino acid analysers are used particularly within the food industry to ensure the integrity of what we eat and drink, to analyse feedstuffs, measuring the amino acid content of proteins.

"Many spectrophotometers that you see worldwide that have been sold under some of the better-known brand names actually started life in this building"

"Microplate readers are used in many different types of laboratories, but particularly in pharma and biotech laboratories to run tests that rely on measuring a coloured end point in the discovery of new drugs and diagnostic tests."

Selling products to customers in 121 different countries in 2009, Biochrom has built a global reputation for high-quality, reliable instruments that are all made on site at Cambridge Science Park. Originally established as Biocal in St Albans in 1970, the company was later acquired by LKB and in 1974 moved onto Cambridge Science Park as LKB Biochrom. The company went through several ownership and name changes before it was acquired by its current US owners Harvard Apparatus Inc in 1999, and became Biochrom Ltd in the process.

Speaking of its global reputation, James points out that, for the moment at least, its product brands are perhaps better known than the company itself. "Biochrom is probably one of the best stealth companies that you could ever imagine because we market our instruments under various brand names and also through a large network of distributors. So our brands such as Libra, WPA, Asys and Anthos are very well known around the world.

"We also have a very large original equipment manufacturer [OEM] business, so many spectrophotometers that you see worldwide that have been sold under some of the better-known brand names actually started life in this building. As such, Biochrom has a much larger market share than anybody would ever recognise because we don't sell under the Biochrom brand."

Although it plans to continue its long and successful relationship with OEMs, the company is also working to develop greater recognition of Biochrom as a brand in its own right over the coming years. The addition of the word Biochrom to some of its leading product ranges such as WPA, Asys and Anthos is aimed at developing broader brand awareness, combined with improved support for its global distributors and an enhanced online presence.

Meanwhile, the recent launch of the new Biochrom Libra range of spectrophotometers illustrates the direction in which the company intends to develop.

"We have increased our investment in R&D to probably the largest percentage in the company's history over the past couple of years and that will continue into the future," says James. "The goal is that, by the end of 2011, we want to have the most compelling product range in the areas of spectroscopy in which we work.

"Product enhancements include features like touch screens, very user-friendly software,

and USB ports so that people can control and communicate by computer with their machines. We already have Bluetooth® communication so that the instrument can be independent of the computer somewhere else in the lab, as well as integrated printers within the instrument itself so that scientists can simply add the printout to their lab books.

"We have increased our investment in R&D to probably the largest percentage in the company's history"

"One of the new areas we are very excited about is the way in which our instruments can be used in the field of process control. In manufacturing, the old paradigm involved simply testing the end product to ensure it met quality standards. But that way, if anything has gone wrong during the process the customer has wasted possibly hours of production. So now the model is to try and catch any problems upstream, before materials are wasted.

"Our technology lends itself very well to this way of working because our instruments are easy to fit into production processes and they can communicate wirelessly to provide real-time quality control information, which ultimately helps to reduce wastage."

Now well into its fourth decade on Cambridge Science Park, Biochrom continues to see the location as of real value to the company and is currently in discussion about the possibility of moving into a new purpose-built building on the Park in the next few years.

In 2002, Biochrom acquired Walden Precision Apparatus (WPA), a Cambridge-based manufacturer of spectrophotometers, moving the business in house and onto Cambridge Science Park. It's a business direction which the company continues to explore, as James outlines.

"As a company, we grow in two ways, both through organic development of the business – selling more products to more customers worldwide – and also through acquisition of complementary companies. So we're actively seeking to acquire companies, some of which may be relocated to Cambridge and be 'tucked under' the existing company. We intend to develop our business as a leader in its field."

www.biochrom.co.uk

Above: user-friendly UV-Vis spectrophotometer from Biochrom

50 years of innovation

A landmark year for Cambridge Consultants

Below: Cambridge Consultants moves onto the Park in 1979

As Cambridge Consultants celebrates its 50th anniversary in 2010, Catalyst spoke to CEO Dr Brian Moon about the company's history, its long association with Cambridge Science Park and the road ahead.

"I think the folklore is that Cambridge Consultants was set up by a group of three Cambridge graduates in 1960, although there may have been more people involved than that," explains Dr Moon at the company headquarters at 29 Cambridge Science Park.

"What is certainly true is that our founders shared a common ambition of wanting to put the pool of technological talent gathered in this area at the disposal of British industry. That's something that has remained a common thread throughout our history – the aim of creating and exploiting technology, both with our clients and sometimes on our own."

Originally privately owned, Cambridge Consultants was established as one of the UK's first technology consulting businesses, later acquired by the US management consulting firm Arthur D Little in 1972. In 2002, European technology consultancy Altran took over ownership of the company which has grown to employ a workforce of approximately 350 people in its 50th anniversary year – around 40 of whom work at the Cambridge Consultants US office in Boston.

"What we actually do is two things," explains Dr Moon of the company's core activities.

"Firstly, we work for clients to create solutions to their technology problems. This often manifests itself in breakthrough products and is by far the largest element of our business.

"Secondly, because we employ the kind of people who are naturally curious about the potential of new technologies, we're always creating intellectual property. Some of the time we're capturing that and investing in it – this might result in a spin-off company in some cases. This is a much smaller part of our business, but it's something that we're quite well known for now – companies such as CSR, Alphamosaic, Xaar and Domino had their origins at Cambridge Consultants."

Although from the outside it may seem to traverse diverse hi-tech fields, Dr Moon is clear that Cambridge Consultants' broad portfolio of expertise has evolved gradually through years of experience.

"The company is very focused and I believe that as time goes by it has become more and more so. We target a number of specific industry areas and, not surprisingly, these tend to be industries which are the early adopters of technology.

"So we're very active in medical technology and in communications, particularly wireless communications. We also do a lot of work in industrial and consumer products, particularly on leading-edge products that hinge on technological innovations. We develop new sectors according to the changing nature of the world, such as our involvement in the development of green technologies or 'cleantech', but we also remain active in areas in which we've historically been involved, such as the defence sector."

It's an approach which has paid clear dividends as Cambridge Consultants recorded its most successful year ever in 2008, despite the economic downturn. The company continues to prosper, receiving the Queen's Award for Enterprise in the International Trade category in 2009 in recognition of the strong growth of its export business.

"The industry areas we work in are the early adopters of technology and we work for clients who have very determined and positive visions of the future – they're absolutely intent on investing in it"

"Although there have been some very real problems for businesses in the world around us, Cambridge Consultants has actually done very well over the last few years," comments Dr Moon.

"There are lots of different reasons for that – it's partly because we have some very purposeful and effective things to say and we have a strong set of beliefs that have guided us. We've made decisions on where we believe technology is going to develop and we've made investments in these areas which have recently begun to pay off.

"The industry areas we work in are the early adopters of technology and we work for clients who have very determined and positive visions of the future – they're absolutely intent on investing in that future and believe that technology is fundamental in shaping it. For us, that means our client base continues to invest in innovation and the services we can provide."

Dr Moon points to two recurrent themes which continue to influence the development

of the hi-tech sector in general and Cambridge Consultants' work in particular.

"If we look at technology, especially in the area of electronics, we notice that, as time goes by, power or capacity increases while costs come down," he says. "There's a huge amount of complexity inside even the most common consumer products today – your phone has as much computing power as the rocket that took people to the moon, for example.

"Simultaneously, there is an increasing drive to make the user experience as simple and straightforward as possible. You used to judge a hi-fi system on how many flashing lights it had – that's not the case any more. For example, last year we developed a product for a client called the Q2 Cube radio: a state-of-the-art internet radio which has absolutely no dials or buttons on it at all – you control it by placing it on different sides. So there's a lot of endeavour going into making products that are extremely powerful but also very easy to use.

"This brings us on to the next theme, which is about the power of communication in technology. Over the last ten to fifteen years, we've seen an incredible growth of internet and wireless technologies which have revolutionised the way we can communicate today.

"What we're seeing in many areas is a convergence of wireless and internet technologies with other hi-tech areas to transform the way they are developing. For example, the convergence of wireless and medical technologies is really exciting and we're working on a particular platform for making that happen. Because power has increased and cost has come down, we're also starting to see wireless capabilities in consumer and industrial

products in a really profound and effective way, and that's something we're working more and more on."

Cambridge Consultants has grown, adapted and evolved in the 50 years since it was first established, but there is no question that it retains an allegiance to its geographical origins.

"Being a part of the Cambridge cluster has served this company extremely well," explains Dr Moon. "Cambridge is a hugely important brand: it's synonymous with scientific and technological excellence and is recognised for that around the world. We're very happy to be associated with that brand and perhaps we've played a part in helping to develop it.

"Being part of Cambridge Science Park, where we've been since 1979, is also very important to us. I think our people have an allegiance both to Cambridge Consultants and also to Cambridge Science Park. It's a self-fulfilling situation where we have very able and creative people in an environment which stimulates and sponsors that.

"Our people have an allegiance both to Cambridge Consultants and also to Cambridge Science Park"

"Cambridge Science Park was the first of its kind in this country and has definitely been a role model for other science parks. In some ways, perhaps Cambridge Consultants has also been a model for other companies – we have grown and thrived here, and maybe been an inspiration to others."

www.cambridgeconsultants.com

Above middle: the Vena platform developed by Cambridge Consultants, a breakthrough software solution on a single chip that allows medical devices such as blood pressure monitors to transmit data wirelessly.
Right: the Q2 Cube radio developed by Cambridge Consultants

PARKLIFE connections

Biology in Business (BiB) is a Cambridge-based non-profit organisation with more than 1,700 members that bridges academic and commercial life science to promote career development and technology transfer through events, online resources and networking opportunities.
Email: info@biologyinbusiness.org
www.biologyinbusiness.org

One Nucleus' objective is to facilitate and accelerate the growth of biotech in Cambridge and the East of England. Its core activities include: hosting networking events, special interest groups, training, partnering and member promotion, publications, regional and national initiatives.
www.onenucleus.com

Research Services Division (RSD) helps to identify, secure and manage research funding for the University from regional, national and international sponsors. It encourages collaboration between the University and industry, and fosters long-term research partnerships between companies and academics for mutual benefit. RSD also organises Horizon, the leading seminar series, which provides participants with a first look at new developments in the most exciting areas of science and technology at Cambridge University.
Contact: Hannah Pawson
Email: hannah.pawson@rsd.cam.ac.uk
www.rsd.cam.ac.uk

The Great Eastern Investment Forum (GEIF) is a leading UK business angel network located in Cambridge which exists to introduce ambitious, innovative companies seeking funding to business angels and other early-stage funders seeking quality investment opportunities.
www.geif.co.uk

Science Technology Network (STN) is an online database service that provides global access to an integrated network of the most important and comprehensive chemistry, sci-tech and patent databases from the world's most respected producers.
www.stn-international.com

Cambridge AWiSE (Association for Women in Science & Engineering) AWiSE is a multidisciplinary membership organisation composed of individuals, businesses, associations, institutions and other organisations, all of whom share the common goal of advancing the interests of women in science, engineering and technology. The Cambridge branch holds regular meetings and events; for details see the website or get in touch.
Email: camawisemeetings@yahoo.co.uk
www.camawise.org.uk

The Cambridge Network is a membership organisation with the mission to link like-minded people from business, finance and academia to each other and to global partners for the benefit of the Cambridge region. It helps Cambridge raise its game by delivering over 40 networking, partnering and special interest group events per year (mostly in Cambridge) and a high-profile website where its 1,300 corporate members publish profiles, news, jobs and events every day.
www.cambridgenetwork.co.uk
Tel: 01223 401584

Enterprise Link, a Business Link service for Cambridgeshire, is a membership network providing advice and support for early-stage, entrepreneurial/aspirational businesses. It holds a variety of networking events and seminars at the St John's Innovation Centre in Cambridge, and also sends out regular bulletins to members with information, advice and opportunities. It can also arrange access to sector specialists.
Email: info@enterprise-link.co.uk
www.enterprise-link.co.uk

i10 provides large and small businesses with easy access to the expertise, resources and innovation within universities and higher education institutions in the East of England.
Contact: Catherine Atkins
Email: c.atkins@i10.org.uk
Tel: 07738 455166

East of England International (EEI) is the official regional organisation that provides business support to companies seeking to trade internationally and assists foreign-owned businesses looking to invest in the East of England.
Contact: Alice Boulton Tel: 01223 450450
Email: aliceboulton@eeia.com
www.eei-online.com

The Cambridge Science Park is managed by Bidwells on behalf of Trinity College.

Catalyst is a forum for companies on the Cambridge Science Park.

If you have any comments or suggestions for stories to be included in the next issue, please get in touch with Joanne Uttley (see right).

www.cambridgesciencepark.co.uk

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New Arrivals

Arecor

Arecor collaborates with pharmaceutical and biotech companies who are developing recombinant proteins and vaccines for application in drugs, medical devices or diagnostics. Arecor has developed Arestat™, a smart stabilisation technology, which enables the formulation of labile proteins and vaccines as stable aqueous or dry preparations even at high concentrations or in the presence of ionizing radiation. As a simple reformulation, the technology can be readily integrated into existing manufacturing processes. Arestat™ does not involve the covalent modification of biologics and uses only GRAS (Generally Regarded As Safe) excipients approved by relevant regulatory authorities.
Arecor moved onto the Cambridge Science Park in February 2010.

www.arecor.com

Liquavista

Liquavista was founded in 2006 as a spin-out from Philips Research Labs in Eindhoven. Liquavista's vision is to more than double the performance and substantially reduce the environmental impact of information displays, allowing people to be mobile without compromise. Liquavista's display technology, based on the electrowetting principle, produces bright, colourful images, which show video content with very low power consumption and offer excellent indoor and outdoor viewability.

www.liquavista.com

Pepsmedia

Pepsmedia is a social media marketing, web and software development agency. They help users discover their online community, start a conversation with their customers and produce successful creative online marketing campaigns. Founder Vero Pepperrell started blogging in 2000, when she first left Canada, and hasn't stopped spreading the word about the power of digital communications since. From creating inspiring blog designs to running training bootcamps to get companies in touch with their community, the team is passionate about making a difference, one blog, Twitter account or Facebook page at the time.

www.pepsmedia.com

Sutton Co

Sutton Co is a truly multidisciplinary graphic design studio. They are equally at home producing a powerful new identity, eyecatching direct mail or engaging websites.

www.suttonco.co.uk

TRAVEL PLAN PLUS (TP+)

TRAVEL PLAN PLUS (TP+) is an exciting European-funded project that will set up a travel plan network with employment sites across the area covering: Cambridge Business Park, Cambridge Regional College, Cambridge Science Park, St John's Innovation Centre and Taylor Vinters solicitors. Our commuter centre located in the Cambridge Science Park Innovation Centre, close to the Trinity Centre, is open to all commuters across the area for practical and pragmatic advice on available sustainable travel options including car sharing, public transport, cycling and walking.

www.travelplanplus.eu

www.cambridgesciencepark.co.uk

Established in 1970 by
Trinity College Cambridge