



UNIVERSITY OF
LIVERPOOL

insight



LIVERPOOL'S PLACE AT THE HEART OF CERN

The University's 60-year role in the most important physics laboratory on the planet

Blackboard to red carpet

Educating Yorkshire's Michael Steer adapts to life in the limelight

Making my heart bleed

The UK's Information Commissioner on tackling online fraud

Cemented in history

How the University's expertise influenced the world during WWI

insight



Hello and welcome to your new-look magazine!

I joined the University at the beginning of the year and what a year it has been!

We have held events across the globe and welcomed our Class of 2014 graduates to our alumni

network. Our London campus in Finsbury Square opened its doors in September. We will be using the space for some of our London events, so you will have the opportunity to visit in future. On page 47, you can view our calendar of events for 2014/15, both in the UK and internationally, but please do check our website for new additions to the programme.

We have included a short questionnaire with this magazine, which we would be grateful if you could take the time to complete. This will help us to learn more about you and inform our activity in the future. If you return the questionnaire before 31 January 2015, you will be entered into a competition to win a £100 Amazon voucher.

Please get in touch if you have any questions or to feedback on the magazine.

Best wishes

Anita Irving
Head of Alumni & Supporter Relations
alumni@liverpool.ac.uk

P.S. Our magazine is now available online. If you would like to 'go green' and receive your magazine by email in the future, please contact: alumni@liverpool.ac.uk with 'Green Magazine' in the subject line.

Stay connected at: www.liverpool.ac.uk/alumni.



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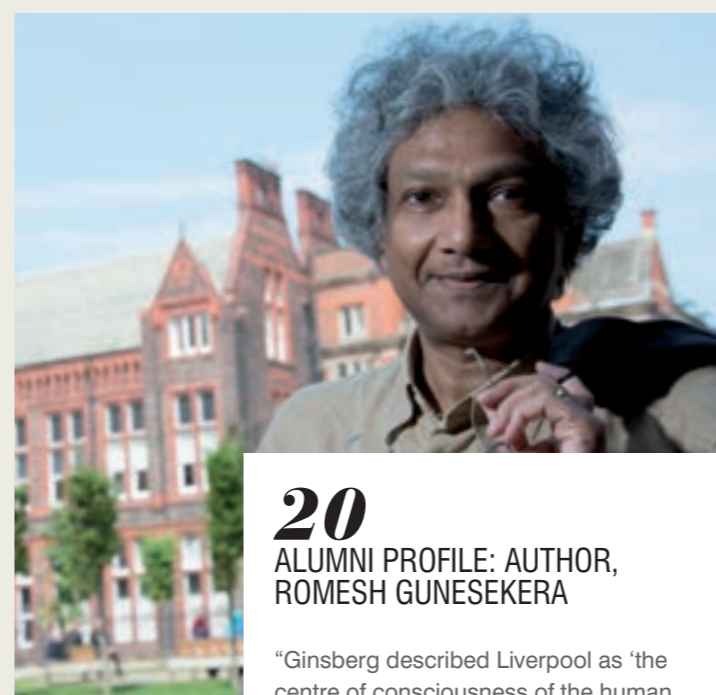
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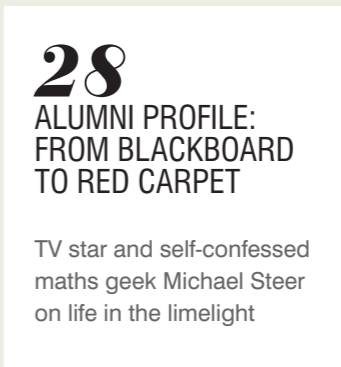
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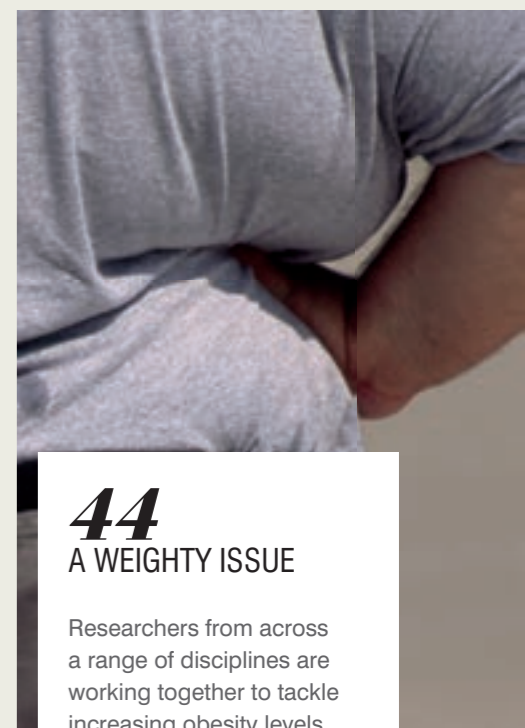
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A word from the Vice-Chancellor

This will be the last opportunity I have to write to you as Vice-Chancellor, prior to my retirement in January 2015. Over the last six and a half years, it has been my privilege to have met so many alumni at events all over the world, as well as at graduation ceremonies in Liverpool, Suzhou, Washington DC and the Cayman Islands.

Next summer will see the graduation of the first cohort of UK students paying £9,000 tuition fees. Many of these students will have benefited directly from the support of alumni, through generous scholarships and bursaries, to those who have taken part in our successful mentoring programme.

Despite concerns within the higher education sector that increased fees would be a deterrent, I am delighted that the recruitment of students to Liverpool has been excellent, and we have also seen record numbers of potential students at our 2014 Open Days.

The £600 million investment we have made to enhance the student experience, including building award-winning student accommodation, improving our libraries and refurbishing the Guild of Students, makes our campus a major showpiece of which you will be very proud.

As a leading Russell Group institution, we are proud to attract the brightest students to our University and I am pleased that our new Excellence Scholarships, launching in 2015/16, will help to support the next generation of academic talent. You can read more about this on page 9.

Over the last year, accomplishments have included establishing our London campus; rising in the QS World University rankings; the launch of our Hong Kong Foundation - a critical milestone in our international alumni and fundraising activity; the opening of the International Business School Suzhou at our partner university in China, XJTU; and more recently, the awarding of an honorary degree to President Bill Clinton in Washington DC.

It is difficult as an outgoing Vice-Chancellor to pinpoint one achievement I am most proud of, but spending time meeting our alumni and supporters has definitely been a highlight. I would like to thank every one of you who has supported the University by offering your time and generous donations; your support really does make a difference.

ENHANCING OUR GLOBAL OFFER

The University's partner organisation in Suzhou, Xi'an Jiaotong-Liverpool University (XJTU), now offers more than 50 undergraduate, postgraduate and doctoral programmes and student numbers have grown to 8,000 since it opened in 2006.

Voted 'Most Influential Sino-Foreign Higher Education Institution in China', XJTU has also celebrated the launch of its business school this year. The International Business School Suzhou is the first business school in China to



have a Thomson Reuters Financial Lab on site, offering students practice in dealing with equities, bonds and other financial products, while providing a significant tool for research and analytics.

University of Liverpool alumni are an important part of the XJTU family and those interested in continuing their studies in China will automatically be eligible for a 20% reduction in tuition fees.

Read more at: www.liverpool.ac.uk/xjtu.



Left to right: Sir Peter Westmacott, President Bill Clinton, Professor Sir Howard Newby

PRESIDENT BILL CLINTON RECEIVES HONORARY DEGREE

President Bill Clinton, Founder of the Clinton Foundation and 42nd President of the United States, received an honorary degree at a special ceremony held at the British Embassy in Washington DC.

President Clinton, who left office after eight years with the highest approval rating of any President since the Second World War, was honoured with a Doctor of Laws for his significant contributions to improving global health care and protecting the environment, as well as strengthening education and international economies.

The ceremony was hosted by the British Ambassador to the United States, Sir Peter Westmacott; he said: "It is a privilege to welcome President Clinton and the University of Liverpool, especially on such a momentous occasion.

"This honorary degree from a British university reflects the depth, breadth and longevity of the unique ties between the United States and the United Kingdom - links that have long been especially strong in higher education."

LONDON CAMPUS NOW OPEN



The University of Liverpool in London officially opened in September 2014, offering a suite of vocationally focused postgraduate programmes delivered in premium facilities.

The range of programmes on offer is designed to build on the University's existing links with London-based

employers, professional institutes and policy makers, and to offer graduates and professionals the opportunity to enhance their capability in one of the world's most dynamic and inspiring cities.

The University of Liverpool in London campus is situated at 33 Finsbury Square, right in the heart of London's professional and business communities.

Read more at: www.liverpool.ac.uk/london.

THE GUILD PACKS A PUNCH



The Liverpool Guild of Students reopened its doors in September following a £14 million refurbishment.

Improvements include a cinema room, a new-look Stanley theatre, and one of the biggest performance venues in the city.

The courtyard has also been refitted with new lighting, heating and furniture, and a food servery. This major overhaul means that the Guild is once again the largest students' union building in the country.

£62 MILLION INVESTED IN STUDENT ACCOMMODATION

In order to provide a world-class student experience, the University continues to invest in accommodation, with a £62 million investment in student accommodation at Crown Place in the heart of the campus.

The student village, which opened in September, includes 1,259 en-suite bedrooms and features a sustainable and energy efficient design.

Work also commenced in March on a £7 million refurbishment of student accommodation in Melville Grove. The scheme involves the total refurbishment of 338 student apartments, with completion of the first phase in September. The whole development will be completed by January 2016.

Vying for virtual SAfETY

With ever more sophisticated fraudsters, keeping yourself safe online should be a top priority



We conduct more of our lives online than ever before. From online banking to supermarket shopping, every day we carry out transactions from the comfort of our homes in favour of visiting shops in person. But is our reliance on internet shopping making us more vulnerable?

“We all want to reap the benefits of what the internet has to offer, but we also have to be aware of the risks,” explains alumnus Christopher Graham (BA Hons History 1973 and President of the Guild of Students 1971-2), UK Information Commissioner. “We leave an online footprint everywhere we go and this is something we need to bear in mind.”

In recent years, the media has reported widely on cyber security scandals, which are estimated to cost the UK economy £10 billion a year, with the Heartbleed virus, the National Security

Agency (NSA) scandal, and the recent eBay data breach affecting millions and sending shockwaves around the world.

“The Heartbleed virus was a very good example of why we all need to be very alert to how vulnerable we can be online and to make sure that we think ‘privacy’ in all that we do,” Christopher said.

The Heartbleed virus - one of the biggest security threats the internet has ever seen - hit the headlines in April this year, when sites that were vulnerable to the bug left themselves open to their information being stolen.

These security breaches occur for a number of reasons and have far-reaching consequences. “Identity theft is one of the biggest threats,” said Christopher. “Because we are doing so much online - work, banking, social correspondence, shopping, entertainment - there’s a lot of information that can be accessed if we don’t look

“We leave an online footprint everywhere we go and this is something we need to bear in mind.”

- Christopher Graham, UK Information Commissioner

after it sensibly and keep it locked away.

“It’s incredibly important to be very careful about passwords and to take a common sense view to our lives online. You wouldn’t give a stranger your PIN number out in the street, so the same principles should be applied when you get an email from someone asking for sensitive information.”

“The eBay customer data breach that we saw earlier this year was different to that of the Heartbleed scandal,” said Alan Marshall, Professor of Communications Networks at the University’s School of Electrical Engineering, Electronics and Computer Science.

“In this case, an internal account appears to have been used to access databases which contained users’ personal details, including date of birth, address and password information.”

eBay isn’t the only organisation that has had to manage the consequences of an internal source leaking information. The NSA is currently dealing with the ramifications of the interception of communications, surveillance and security services.

“In recent years we’ve had to turn our attention to how we track legitimate users behaving abnormally,” Alan said. “Essentially, this is an insider who appears to be, for example, a normal



employee, but under the surface is doing things surreptitiously.”

“Over and above the financial motivations, people also release viruses for both political and competitive gains,” says Alan. “People will deliberately spam someone else’s website at a key time so that users can’t view the content. Similarly, something that’s not uncommon is competitors spamming each other’s websites, so that customers need to seek an alternative whilst the service is unavailable. There are so many motivations for cyber crime.”

Professor Marshall and his team at the University are also researching another area of concern: viruses that can spread via Wi-Fi networks. The team has shown for the first time that networks can be infected with a virus that can move through densely populated areas as efficiently as the common cold.

By designing and simulating an attack by a virus called Chameleon, they found that not only could it spread quickly, but that it was able to avoid detection and identify the points at which Wi-Fi access is least protected by encryption and passwords. The team are now using the data they have generated through this study to develop a new technique to identify when an attack is likely.

“Project Chameleon demonstrated that a virus doesn’t just have to reside either on the internet or in a computer. It can spread from access point to access point, via Wi-Fi. And from this threat people are incredibly vulnerable - it can be used to misinform, extract passwords and gain access to personal information. But it can be avoided. So many people don’t change the administrator password on their access point. This sort of attack could be avoided by simply changing this password.”

Simon Maskell, the University’s Professor of Autonomous Systems, is also leading a project in partnership with Hewlett Packard to protect organisations of all sizes from cyber threats, drawing on psychological studies into how people make decisions in stressful situations.

Funded by the Engineering and Physical Sciences Research Council (EPSRC), the project is using mathematical models to improve how decisions are made when dealing with complex security IT problems.

How to stay safe online

The online world is a minefield when it comes to safeguarding your information. Here are a few pointers to keep in mind the next time you are surfing the web:

- Set a really strong password. Avoid names of family members and choose something that has a mixture of letters, numbers and symbols
- Make sure both your Wi-Fi and smartphone have passwords
- Don’t give away your personal information – banks don’t ask for PIN numbers and card details online
- Be aware of public service Wi-Fi – browsing is fine, but avoid using it to make purchases or to share information
- Keep your wits about you – if something doesn’t seem right, chances are it could be a threat.



“This is a unique inter-disciplinary research project which uses mathematics to improve the decision-making skills of those working in IT security operations,” said Simon.

“The toolset we are developing will ensure that decisions are made based on what the evidence actually indicates rather than what people - often mistakenly - think the evidence indicates.”

As we become increasingly reliant on the internet, taking a careful and informed approach to our behaviour online is essential to protect ourselves against potential threats.

“Fraud and the idea of fraud is not new,” Christopher Graham explains. “What is new is that fraudsters are becoming ever more versatile and ingenious with the fraud they are executing. Most credit card fraud is accessed online, so we have to be incredibly alert. That threat isn’t going to go away, but we can manage it better by being more aware of our online behaviour.” ●



UNLOCKING THE POTENTIAL OF THE MOST TALENTED STUDENTS

The University of Liverpool has received £100,000 from US graduates to support a new scholarship programme for undergraduate students.

The Excellence Scholarships fund will ensure that UK undergraduates from households where finance may be a barrier to further education, but who have predicted A-level grade of AAA or equivalent, can secure a place at the University for 2015 entry.

Successful applicants, from families that receive less than £42,000 in annual income, will receive up to £3,000 for each year of study. Those from households with income of less than £25,000 will receive a total package of £4,000 each year.

The donation has come from the directors of Liverpool’s US Foundation, an initiative that was established to allow US graduates to support University research and students. Directors of the Foundation, Former Finance Director of Wyeth, Tony Crowe; Senior Independent Director at Rolls-Royce, Dr Lewis Booth; and Executive-Vice-President of EnCore Composite Structures Inc., Dr Brian Jones, commended the new

programme as an initiative that will allow young people to reach their full potential.

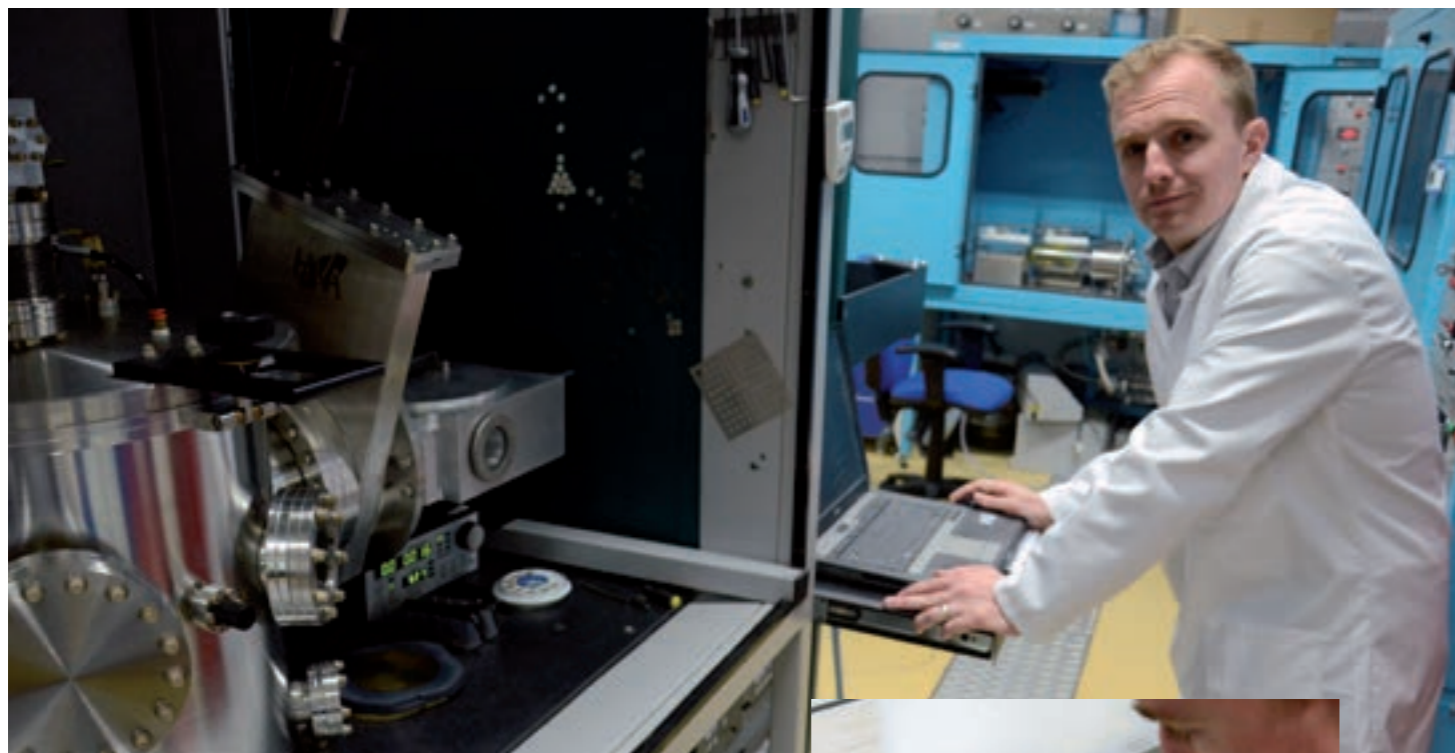
Karen Brady, Director of Philanthropy & Alumni Relations at the University, said: “By donating to the Excellence Scholarships fund, our supporters will play an important role in investing in a bright future for the next generation of scholars and potentially future research stars.

“Given the increasingly important emphasis that our prospective students are placing on money matters, additional financial support is extremely important in informing decisions about whether to continue with education or not.

“We are grateful for the support we have had so far and welcome others to consider how their donations could positively change a young person’s life.”

IT ALL STARTS HERE.

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A surprising new use for tofu ingredient

Researchers at the University's Stephenson Institute for Renewable Energy have replaced a highly toxic and expensive substance used to make solar cells with one used to make tofu and bath salts.

Cadmium chloride is currently a key ingredient in solar cell technology which is used in millions of solar panels around

the world, but it is highly toxic and expensive to produce.

Physicist Dr Jon Major (pictured above) has found that it can be replaced with magnesium chloride, which is extracted from seawater and is used in products such as tofu, bath salts and de-icer for roads.

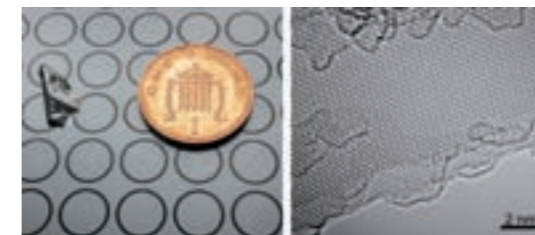
Safe and at a fraction of the cost - \$0.001 per gram compared to \$0.3 - it has been shown in the

study to be as effective as the alternative.

Dr Major said: "Cadmium chloride is toxic and expensive and we no longer need to use it. Replacing it with a naturally occurring substance could save the industry a vast amount of money and reduce the overall cost for generating power from solar."



Material gains in chemistry



Scientists in the Department of Chemistry have created a new material related to graphene which has the potential to improve transistors used in electronic devices.

The material, 'triazine-based graphitic carbon nitride' (or TGCN), was predicted theoretically in 1996, but this is the first time that it has been made.

Graphene is one atom thick, strong, and conducts heat and electricity highly efficiently. The new TGCN material is also two-

dimensional, but it has an electronic band gap making it potentially suitable for use in transistors.

The new development comes as the University announced that it will open a £65 million Materials Innovation Factory in partnership with Unilever to accelerate research and reduce new product development times relevant to a range of sectors. The facility is expected to be occupied by a total of 250 researchers and will open in the summer of 2016.



Liverpool assists Fukushima monitoring

Research at the University of Liverpool is developing new sensors that will help the recovery and regeneration of the post-disaster Fukushima region and pave the way

for improved monitoring and control of radioactivity at nuclear sites worldwide.

The continued release of radioactive material from the earthquake-damaged Fukushima Daiichi nuclear power station in Japan, with the associated risks to water, coastal environments, agricultural land, animals and human health, have drawn international concern.

As a result of this, the University team, which is made up of engineers, environmental scientists and physicists, is looking at developing smaller and more accurate versions of detectors known as Compton-geometry sensors. The aim is to see how radioactivity moves with changes in water flow or sediment movement, and how the radiation in contaminated soil gets into the food chain through plants and animals.

STUDENTS AIM TO BUILD FASTEST BIKE IN HISTORY

A team of engineering students are attempting to create the fastest human-powered vehicle in history.

The University of Liverpool Velocipede Team's students are hoping their design will smash the 83.13 mph record set in September 2013 by TU Delft and VU Amsterdam universities.

ARION1 (pictured below) will be designed, manufactured and ready to race by May 2015, and will attempt the record in September 2015 at the World Human Power Speed Challenge in Battle Mountain, Nevada.



CHEMISTRY PRIZE WITH 81-YEAR HERITAGE RETURNS

An alumna of the University has received the first Potts Medal for outstanding contribution to Chemistry to be awarded in 13 years, thanks to a generous gift from an anonymous donor.

The Medal, named in honour of distinguished chemist Harold Edwin Potts (BSc Hons Chemistry 1906, MSc 1907), was first awarded in 1933 to alumni from the Department of Chemistry and, following a 13-year hiatus, the prize has now been awarded to Professor Alison Ashcroft (BSc Hons Chemistry 1977), Professor of Biomolecular Mass Spectrometry in the Astbury Centre for Structural Molecular Biology and Faculty of Biological Sciences at the University of Leeds.



ChemSoc President Helen Cauldbeck (left) presents the 2014 Potts Medal to Professor Alison Ashcroft

£1.7 million to trace lives of convicts



A tough sentence: The project aims to shed light on the plight of more than 60,000 convicts imprisoned or transported to Australia

The School of Law and Social Justice is leading a £1.7 million Arts and Humanities Research Council (AHRC) award to make it possible for people to trace the records of more than 60,000 Londoners sentenced to either imprisonment or transportation from 1787 up to the 1920s.

The project, 'The Digital Panopticon: The Global Impact of London Punishments, 1780-1925', uses digital technologies to bring together genealogical, biometric and criminal justice datasets held by different organisations in the UK and Australia in order to produce a searchable website.

The Digital Panopticon will not only be of interest to the 12 million family historians in the UK and Australia, but will also help resolve some important questions that have intrigued historians, sociologists, social geographers, linguistic researchers, economists and criminologists about the impact and effects of imprisonment, and transportation to Australia.



A huge boost for the Management School

A refurbishment programme to transform the Senate Drum Building into a modern teaching and learning facility has benefited from one of the biggest individual donations received by the University in recent history.

Alumnus Paul Brett (BA Geography 1965) made a generous gift to the University of Liverpool Management School that will enable MBA students to benefit from a dedicated suite featuring the latest audio visual equipment, break-out spaces, careers interview rooms, exhibition spaces and social zones.

The new building (pictured above) will be renamed the Brett Building in memory of Paul's late mother, Kathleen Brett. Paul said: "Next year marks the 50th anniversary of my graduation from the University of Liverpool and I am delighted that I can support the University's current and future students in this way."

Paul is the former Chief Executive of Thomson Travel Group Plc. He was with the Company for 20 years when he retired. Since then, he has invested in and helped develop a number of new businesses in the travel, wine and restaurant industries.

Garstang Museum of Archaeology reopens

The University's Garstang Museum of Archaeology reopened in July following a major refurbishment. The museum holds an important collection of antiquities, reflecting the University's long history of archaeological study, including objects excavated in Egypt, the Aegean, Sudan, Jericho, Anatolia and Great Britain.

Read more at: www.liverpool.ac.uk/garstang.

Award for helping Hillsborough lawyers

A team from the Liverpool Law School have won prestigious national awards for their work in supporting the firm investigating the Hillsborough disaster.

Christine Ball, who works at the University of Liverpool Law Clinic, won the LawWorks Pro Bono Award for Best Individual after putting together a team of 30 students to examine thousands of documents for local law firm Broudie Jackson Canter, who represent the 21 families who lost

relatives during the stadium disaster of 1989. The student team won the award for Best Contribution by a Team of Students.

"The students displayed considerable diligence and professionalism whilst undertaking this highly sensitive task," said Christine. "Their dedication enabled the legal team to comply with deadlines which would have been impossible to meet without the students' assistance."



Left to right: Rt Hon Dominic Grieve QC MP former Attorney General and Rt Hon Louise Ellman MP for Liverpool Riverside with winning students: Curtis Ball, Christopher Williams, Alexandra Charlton, Valeriya Sterkhova, and Rt Hon Steve Rotherham MP for Liverpool Walton

SLAVERY AND FORCED LABOUR UNDER THE SPOTLIGHT

► The Director of Anti-Slavery International, Aidan McQuade, joined University researcher Glynn Rankin to deliver a seminar on 'Forced Labour and the Supply Chain' as part of Liverpool's International Festival for Business.

Drawing on research at the University on exploitation in hotels and the agricultural industry, Glynn stressed the importance of businesses taking responsibility by ensuring that recruitment and agency worker policies included provisions for dealing with exploitation.

BBC CORRESPONDENT'S TALK ON TERROR

► Honorary graduate and Institute of Irish Studies Professorial Fellow, Fergal Keane (Hon LittD 2011),

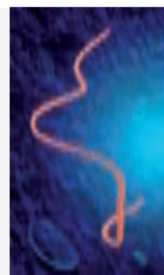


visited the University to deliver a talk about terrorism called *Terror Through Time*, ahead of the release of his 25-part BBC Radio 4 series of the same name.

DEVELOPING POSTGRADUATE STUDENTS

► The School of the Arts has launched a pioneering programme designed specifically for postgraduate research students to develop their research, professional and interpersonal skills.

LiNK (Liverpool Network of Knowledge Exchange) offers short-term placements at major cultural partners such as Bluecoat, National Museums Liverpool, Royal Liverpool Philharmonic and Tate Liverpool.



New approaches for Ebola virus

Researchers from the University, in collaboration with Public Health England, have investigated new ways to identify drugs that could be used to treat Ebola virus infection.

They looked at which proteins inside a cell are critical for the functions of Ebola virus and are hijacked by the virus to help with infection. One of the proteins they have targeted is known as VP24. This protein disrupts signalling in infected human cells and disrupts the body's immune system and the fight against the virus.

Once the team identified these cellular proteins they were able to find out whether any drugs were already in existence that could block the function of the particular protein. One such drug identified was ouabain, which can be used in the treatment of heart disease. Administering this drug reduced virus replication in treated cells.

The study was led by Professor Julian Hiscox from the University's Institute of Infection and Global Health and Professor Roger Hewson at Public Health England.



The European mobile laboratory in Guéckédou, Guinea – the initial epicentre of the Ebola outbreak

Human feet

ape those of tree dwelling ancestors

Research at the University has shown that the mechanisms of the human foot have much more in common with the flexible feet of other great apes than previously thought.

In a study of more than 25,000 human steps made on a pressure-sensitive treadmill at the University's Gait Laboratory, scientists at Liverpool have shown that despite having abandoned life in the trees long ago, our feet have retained a surprising amount of flexibility, as seen in the feet of tree-dwelling

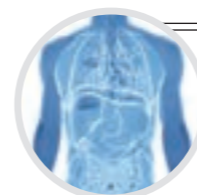


great apes, such as orangutans and chimpanzees.

Dr Karl Bates, from the University's Institute of Ageing and Chronic Disease, said: "As time passed and humans became more and more ground-dwelling animals, some new

features evolved to enable us to move quickly on the ground.

"Our limbs, however, did not adapt to life on the ground anywhere near as much as those of other ground-dwelling animals such as horses, hares and dogs."



Tracking the effect of revolutionary new medicines

The University has been awarded £2 million to fund research into tracking materials used in breakthrough medicines.

A multi-disciplinary team from the Department of Molecular and Clinical Pharmacology and the Department of Chemistry will use radioactive labelling to find out where key materials used in nanomedicines go once they have entered the body. Nanomedicines can deliver small quantities of a drug in a targeted way to the affected part of the body. Unlike traditional therapies, nanomedicines are formulated to use lower quantities, with the potential for cost savings, fewer side-effects and

more rapid treatment of disease.

The Liverpool Radiomaterials Chemistry Laboratory at the University will tag parts of the medicines by making some of them harmlessly radioactive and then monitor how they move around the body once the drugs are administered.

Chemist, Professor Steve Rannard, said: "Nanomedicines are increasingly going to improve future medicines for a broader range of conditions, and this work will provide important information that may accelerate the process of getting them into the clinic and provide benefits to patients globally."

TSETSE FLY GENETIC CODE SEQUENCED

Scientists in the Institute of Integrative Biology have successfully sequenced the genetic code of the tsetse fly, making major advances in disease control possible. Tsetse flies are unique to Africa and can infect people bitten by them with sleeping sickness, which kills more than 250,000 people each year.

Geneticist, Professor Neil Hall (BSc Hons Genetics 1993, PhD 1997), whose paper on the subject was published in *Science*, said, "Decoding this genome has been a long and painstaking process, but now that the data is available to researchers, a range of possibilities for controlling sleeping sickness have opened up."

NEW CENTRES LAUNCHED

The University has launched two new centres to research childhood arthritis and cancer.

The Arthritis Research UK National Experimental Arthritis Treatment Centre for Children aims to improve the health and wellbeing of children with arthritis and related rheumatic conditions. The research team will test new treatments specifically targeted at children with these conditions.

Meanwhile, North West Cancer Research (NWCR), which also incorporates Clatterbridge Cancer Research, has moved its headquarters to the University's Cancer Research Centre in order to be closer to the research teams and facilities at the University and nearby hospital campuses. The NWCR Centre – University of Liverpool will act as a hub for researchers working in a range of disciplines in the cancer field.

To find out more about the University's child health research, go to page 34 or visit: www.liverpool.ac.uk/giving/child-health.

Still accelerating at 60

CERN has fundamentally changed the way we comprehend the universe and how we live our lives and, throughout its 60-year history, the University has contributed enormously to its success.

The European Organization for Nuclear Research, or CERN as it is more widely known, was established with a lofty ambition to promote world peace while unravelling the mysteries of the universe.

While the job may not be quite complete, over six decades it has contributed enormously to our understanding of the structure of the universe, inspired generations of scientists and engineers, and brought particle physics into popular consciousness.

CERN was established after the Second World War by a group of Europe's leading scientists who saw an opportunity to build an international laboratory for fundamental research that would bring nations together through science. However, Liverpool's renown in the field of particle physics far pre-dates the creation of CERN, as the University was one of the few places in Europe to house a cyclotron (an early type of accelerator) before the war broke out. The cyclotron was used by James Chadwick, the Nobel Prize-winning physicist, to prove the existence of neutrons. This epoch-making discovery paved the way towards the fission of uranium 235 and towards the creation of the atomic bomb.



© 1954 CERN



© 1955 CERN

Professor Themis Bowcock, the University's Head of Particle Physics, said: "After the war, Liverpool had a major role in developing CERN. The world had seen enough death and destruction and wanted to show that scientists could work together peacefully. There was a big push to tie Europe together."

Work began in Liverpool on another big, high-energy machine - a 136-inch cyclotron. However, researchers rapidly realised that building ever-bigger accelerators was too much for individual institutions and the work must become a national and international endeavour.

When CERN was established in 1954, University of Liverpool technology and

engineers were central to the construction of one of its first machines - the Synchrocyclotron. "In many ways one can say that Liverpool technology was at the heart of the founding of CERN," said Themis.

"From the early days there were a lot of Liverpool people who were tightly involved in CERN at the technical and directorate levels. The North West can be thought of as the home of particle physics worldwide because so much has been discovered here and so many scientists have come from here and come to work here."

In 1984, Liverpool's Particle Physics Group got a major boost when Professor Erwin Gabathuler joined as its head. Gabathuler was an extremely well-known scientist who had founded experiments and worked all around the world, most notably at CERN, where he was the Research Director when Carlo Rubbia won a Nobel Prize for work leading to the discovery of W and Z particles. He immediately set about revitalising the department and proposing experiments at CERN, including CPLEAR, which pioneered the study of anti-matter in the early 1990s.

As work began at CERN on the Large Electron Positron (LEP) Collider (housed in the same tunnel as the now famous Large Hadron Collider), Liverpool's experts were prime movers in making one of the big four

Top left: The first image taken of the CERN site; **inset:** construction under way; **below:** Professor Themis Bowcock, the University's Head of Particle Physics

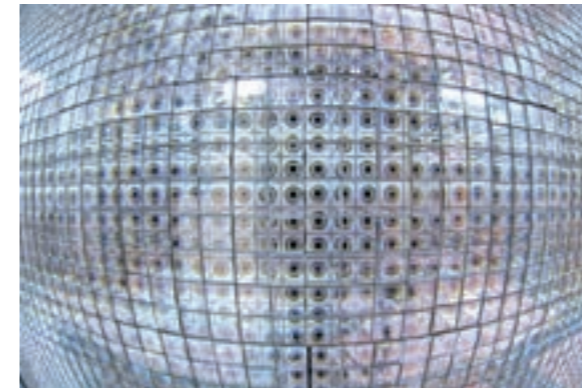




Left: Peter Higgs stands on the cavern floor with the detector open for maintenance behind him

below right: The ATLAS semiconductor tracker undergoing testing. Photo courtesy of CERN.

below: Detail of the ALICE photon spectrometer



experiments work, with Paul Booth becoming deputy spokesperson for DELPHI and Liverpool hardware at its core.

In 2000, attention switched towards the Large Hadron Collider (LHC) and the University was heavily involved in two experiments - the ATLAS experiment, which discovered the Higgs boson; and LHCb, which studied the difference between matter and anti-matter.

Themis said: "We were unique in building the inner tracking component of two LHC experiments. There was obviously a huge fanfare for the Higgs discovery and at Liverpool we were very proud to have contributed to that. Around that period Professor Phil Allport was also elected as the leader of the upgrade project for ATLAS - a multi-billion dollar endeavour involving thousands of engineers and physicists.

"This project and Gianluigi Casse's work as co-spokesperson of the CERN

RD50 collaboration, developing devices for high luminosity colliders, are still ongoing and are recognition that the University leads on the technology.

"At the same time our nuclear physics group was part of the team that created 38 atoms of anti-hydrogen for the first time at CERN, and Dr Monica D'Onofrio from Liverpool has been leading the search for supersymmetry. We are very much at the forefront of particle physics and will continue to be with our involvement in the ATLAS and LHCb upgrades and the Future Circular Collider."

On 29 September 2014 it was exactly 60 years since CERN was founded. During that time, the organisation has done an enormous amount to bring physics to the wider public. Discoveries in particle physics have enabled better diagnosis and treatment in health, aided the safe development of energy sources, and improved sensors in public security at

"Far from being a black hole in the ground, CERN is a fountain of ideas, creativity, and well-informed and educated students."

- Professor Themis Bowcock, the University's Head of Particle Physics

airport terminals. MRI scanners in hospitals employ the same superconducting magnet technology used at the Large Hadron Collider.

"It goes without saying that the world wide web came from CERN. PET scanners, MRI imaging, hadron

therapy for eye cancers, brain cancer therapy, and engineering-based applications like vacuums and electronics - these are all things coming out of CERN," says Themis.

But CERN is also playing another crucial role; it has inspired a new generation of scientists and engineers.

"Studies have shown that it is these big projects that help to bring in young engineers and physicists," explains Themis. "As they learn more, they become inspired and motivated and branch out, and this role is extraordinarily important."

Alumnus Dr Clive McLintock (BSc 1959, BSc Hons Metallurgy 1960, PhD 1963), one of the first directors of Barclays Development Capital Ltd, recognises the importance of investing in the scientists of the future.

He has helped to create a new PhD position at the University that will allow a student to gain work experience at one of the world's

largest particle accelerator facilities and to continue the University's proud history of particle physics expertise.

A chemistry graduate, Clive was inspired to fund the post following an alumni event held at CERN in 2013. His generous donation helped to establish a pound-for-pound matching fund to encourage other alumni to support the initiative which raised £16,000. Student William Turner started his PhD at CERN this year.

"This generous donation by Dr McLintock shows how individuals can make a direct contribution to solving some of the most fundamental questions in science," said Themis. "William will be working at the forefront of physics and it's a wonderful opportunity for a talented scientist to build their career."

"The European Physical Society commissioned an independent review which showed that every euro invested in fundamental science returns three euros to the economy. CERN is not

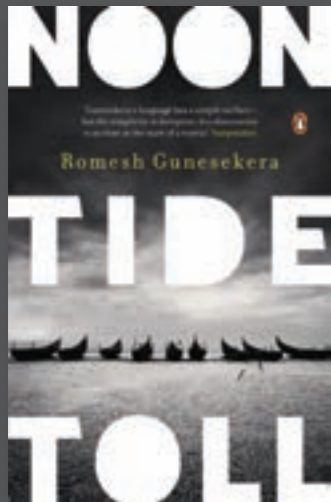
terribly expensive - its budget is less than some universities - but it employs tens of thousands of academics, is a leader in terms of ideas and engineering innovation, and it will continue to drive our economy for 20 to 30 years.

"Far from being a black hole in the ground, CERN is a fountain of ideas, creativity, and well-informed and educated students and we are proud to continue our involvement with it in the future." ●

If you would like to join us for a behind-the-scenes tour of CERN on Saturday 30 May 2015, please visit: www.liverpool.ac.uk/alumni/events.

IT ALL STARTS HERE.

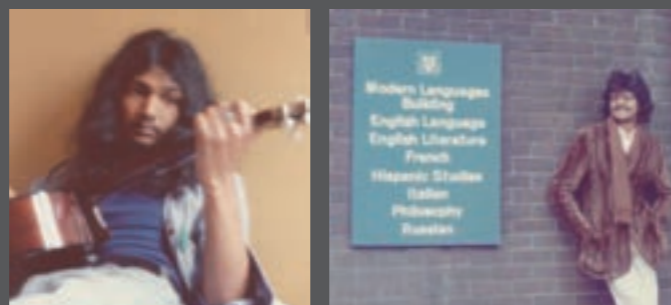
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Romesh Guneseekera

BA HONS COMBINED HONOURS 1976

In 1967, author Romesh Guneseekera was a 13-year-old boy sitting on a Sri Lankan beach singing along to The Beatles' *Penny Lane* with his friends. He couldn't have known that in a few years' time he would be travelling to his idols' home city to study, and what an important part Liverpool would come to play in his life.



Left: Romesh on campus in 1967

Of course, by the time I got to Liverpool, I was far too cool to admit to liking The Beatles!" laughs Romesh, who describes his student self as "the long-haired, hippyish type". "I was more interested in the Liverpool poets - Adrian Henri, Brian Patten and Roger McGough - and the fact that Alan Ginsberg once described Liverpool as 'the centre of consciousness of the human universe'. That's why I wanted to be there."

Romesh moved with his family to Liverpool in 1971. Despite his teenage dreams of going to America, Romesh's parents were keen for him to come to England to study.

"At that time, Liverpool had the only combined honours programme in the country, which was perfect for me because I didn't have a particular career in mind," he says. "The course allowed me to find out more about literature and philosophy, and read books I'd never have read otherwise. They also had one of the earliest courses on American Literature, so the syllabus was really quite progressive."

Having spent his formative years in the idyllic surroundings of pre-civil war Sri Lanka, Romesh found 1970s industrial Liverpool something of a culture shock.

"We all thought we knew about Liverpool from The Beatles," recalls Romesh, "but it was very different to how I'd imagined. It wasn't the heritage and tourist city it is today. It was in economic decline and was very run down in parts, but at the same time it was a fantastic creative and cultural environment.

"I met my wife, Helen, in my third year at university," adds Romesh. "Her father, Professor John Pick, was also an alumnus, so I came to love Liverpool. It was, and continues to be, a big part of my life."

After graduation, Romesh moved to London. Discovering that the roads weren't paved with gold, he took temporary jobs - van driver, Harrods porter, delivery boy - to

support himself while he followed his dream of writing for a living.

In 1992 Romesh's first short story collection, *Monkfish Moon*, was released, kick-starting a literary love affair with his homeland that included his Booker Prize nominated debut novel, *Reef*, and continues today with the recently published novel, *Noontide Toll*.

"For a long time I didn't write about Sri Lanka," explains Romesh. "I wrote about the here and now, about London or Liverpool. When the political violence began I wanted to understand where I'd come from, to explore my own personal history through the country's past and present.

"As a writer I'm interested in the links between places and people. My tangible links to Sri Lanka are getting fewer and fewer. People move on or pass away, so by writing about the country I can keep that connection alive."

On top of his career as an award-winning novelist, Romesh teaches creative writing and runs workshops and mentoring sessions for aspiring writers. He was also one of the first writers on the First Story project, which delivers outreach programmes in schools, designed to encourage children from disadvantaged areas to engage with reading and foster creativity.

"Teaching, whether it's with new writers or schoolchildren, allows you to engage with writing in its rawest state, and that really appeals to me," says Romesh.

"I love having the opportunity to give people a space where they are not judged or assessed, where they can spend time doing something simply for the joy of it." ●

Romesh Guneseekera's latest novel, *Noontide Toll*, was published in July 2014 by Granta Books. He has just completed *Novel Writing, a Writers' and Artists' Companion* with AL Kennedy, which is due for publication in early 2015.

Romesh's top tips for aspiring writers

1. Put the time in. You have to treat it like a job and make time to write. It may take months or even years to produce something you're happy with, or that will be published, but keep at it.

2. Read as much as you can. Read widely, and outside of your chosen genre. You never know where inspiration will come from. It's important to remember what is enjoyable about reading before you try to write yourself.

3. Write as much as you can. Write in as many forms as you like, but get everything down. Take the time to try and find what your values are. You need to be in touch with your heart to write.

4. Seek out a mentor. Writing is a solitary thing and it can be quite hard to keep yourself motivated. Getting feedback and encouragement is vital.

5. Don't give up. It might not happen overnight for you. It can be a very long journey, but the journey itself can be meaningful.

Brian Nellist's GIFT FOR LITERATURE

Brian Nellist, who was a lecturer in English Literature at the University from 1959-2000, has pledged a sizeable donation to establish a scholarship fund for English students, inspired by his own route into higher education and using money he has saved all of his life.

"I was supported by a William Noble Fellowship when I arrived at the University as a junior academic," said Brian. "This support enabled me to pursue my career, so I've given this donation as my offer to help future students."

Although he has now retired from his role in the School of English, Brian currently works for Liverpool's Reader Organisation, which promotes reading to people from a wide variety of backgrounds, and also works part-time at the University's Centre for Lifelong Learning.

His gift will enable many more students to have the opportunity to study at the University in the future and will help to share his enthusiasm for English Literature. The scholarships are for undergraduates in the School of English and will help to support



Distinguished teaching painting of Nellist in oil by the artist Thomas Newbolt

talented students from underprivileged backgrounds.

"Reading literature introduces you to complex thoughts, feelings and ideas, and in doing so is bound to have an effect on your own way of thinking," said Brian. "The most complex use of language is found in literature and studying it helps to improve the way you articulate your thoughts. And that is a valuable skill for anyone to have." ●

If you are interested in discussing a legacy gift, we would love to work with you to make sure any bequest is used in exactly the way you would wish and can talk you through the important steps to consider before you consult a solicitor. For further information, including suggested wording for inclusion in your will, please contact Stephen Kehoe on +44 (0)151 795 4637 or email: stephen.kehoe@liverpool.ac.uk.



Alumni POSTGRADUATE DISCOUNT

University of Liverpool alumni progressing to postgraduate study in either 2014 or 2015 can now receive a 20% discount on their tuition fees.

The Postgraduate Progression Award is available to all University of Liverpool undergraduate students or alumni considering a postgraduate taught course (including MRes qualifications) at either our Liverpool or London campuses. You do not need to make an application to receive this award as it will be automatically awarded to all eligible students.

University of Liverpool alumni are also eligible for a 20% tuition fee reduction on any of our online

programmes. And, if you successfully introduce a friend, family member or colleague to one of these online programmes, you will both receive £300 worth of rewards in the form of an Amazon gift certificate (or, if you are already studying online with the University, as a reduction in your tuition fees).

Find out more at:
www.university-liverpool-online.com/refer.

To discover the wide range of postgraduate study options available at the University, visit:
www.liverpool.ac.uk/study/postgraduate.

Leading THE WAY

The University has appointed
Professor Janet Beer as its next
Vice-Chancellor.

Professor Beer will be the University's first female Vice-Chancellor and is only the third woman to be appointed in the role within the elite Russell Group. She will take up the position on 1 February 2015, succeeding Professor Sir Howard Newby, who is retiring after six years.

An outstanding researcher in the field of late 19th and early 20th century American literature and culture, Professor Beer is extremely well known and respected in the higher education sector for the national leadership roles she has undertaken.

She chairs the Higher Education Public Information Steering Group (responsible for the National Student Survey and Key Information Set), is an elected board member of Universities UK (for which she is Vice-President for England and Northern Ireland), a board member of UCAS, and a member of the Higher Education Policy Institute Advisory Board. She is Chair of the Equality Challenge Unit and has previously been an Arts and Humanities Research Council panel member.

Her previous career has included periods in local government as well as university teaching and administration. Her track record in leadership and management is also well established - she has led Oxford Brookes University successfully since 2007.

Professor Beer said: "I have strong links with the North West, so to be invited back to the region to lead the world famous University of Liverpool feels truly special to me.

"The University is a centre of excellence in research and teaching with the dynamism and power to transform lives.

"The University, like the city, has many unique advantages, and the real potential to build on its history and recent successes to develop, grow and improve in ways we can all be proud of.

"I am looking forward to meeting its committed and talented staff in the New Year, and inviting them to join me on the next exciting stage of the University's journey." ●





Giant spectacular



This summer, Liverpool welcomed back some giant-sized visitors to roam the streets of the city. Following their unforgettable visit for the 2012 *Sea Odyssey* event, French theatre company Royal De Luxe returned to Liverpool as the city hosted one of the UK's flagship 2014 commemoration events for the centenary of the start of the First World War.

Memories of August 1914 was a poignant and spectacular piece of street theatre that saw three giant marionettes embark on a journey around the city. More than 1.5 million people converged on the streets of Liverpool to follow the story of the Grandmother Giant, the Little Girl Giant and her dog, Xolo, as they helped to tell the story of how the city was affected by the events of the First World War.

University Festival of Ideas

To coincide with the arrival of the Giant Spectacular, the University staged a free, two-day Festival of Ideas showcasing the University's global contribution to the arts and sciences.

As the huge marionettes travelled through the city, the University campus hosted a range of musical performances, poetry recitals, exhibitions, film screenings, craft workshops, and interactive demonstrations, many of which were designed to illustrate the University's involvement in the First World War.



Duke of York visits University campus

HRH the Duke of York visited the University in June as part of the International Festival of Business.

During the visit, final year architecture students presented their design projects (pictured above) which aimed to push the boundaries of engineering and materials science, and researchers in the School of Engineering presented their

investigations in additive manufacturing processes and rapid prototyping for use in the production of advanced 3D printed implants for medical purposes.

The Duke also met Professors Themis Bowcock and Tara Shears, who were involved in the discovery of the Higgs boson at CERN, home of the famous Large Hadron Collider.

2014 INTERNATIONAL FESTIVAL FOR BUSINESS

▶ Liverpool was the host city for the International Festival for Business (IFB) this year, a 50-day festival which attracted business delegates and trade intermediaries from around the world.

The largest global concentration of business

events during 2014, the IFB aimed to showcase great British industry across multiple sectors and champion UK businesses to new markets, new products and new partners.

The University played a key role by staging a number of public lectures and hosting a three-day higher education conference – Global Universities of the 21st Century.

Chancellor George Osborne has also committed funding for the IFB to return to Liverpool in 2016. Speaking at one of the festival's key events – the Santander SME summit – he granted a request for financial support for IFB 2016 from the Mayor of Liverpool.

"I am backing this initiative, committing the funding requested by Mayor Joe Anderson and Liverpool

City Council for another festival here in Liverpool in 2016."

EVERYMAN WINS STIRLING PRIZE



▶ Liverpool's Everyman theatre (pictured right) has won the 2014 Royal Institute of British Architects Awards



PHOTOGRAPH COURTESY OF PHILIP VILE

(RIBA) Stirling Prize, architecture's most prestigious prize.

Built on the site of the former Everyman and designed by leading theatre architects Haworth Tompkins, the new building features a 400-seat auditorium, green room, café and bar, and rehearsal, workshop and writing spaces. On the front of the building are 105 aluminium

panels featuring life-size images of Liverpool residents.

The theatre was also named Building of the Year in the regional round of the 2014 RIBA Awards. Other winners from Liverpool were the Enterprise South Liverpool Academy and Liverpool Central Library, which also won the Award for Best Conservation Project.

UNIVERSITY *life*

DURING THE FIRST WORLD WAR

When war broke out in August 1914, patriotism dictated that every able-bodied man, irrespective of his qualifications, was expected to volunteer for the armed forces.

More than a third of the University's teaching staff and male students signed up for active service between 1914-18, while female students joined Voluntary Aid Detachments or gave up their holidays to work on the land.

Everything became focused on the war. The Engineering Departments became a centre for the production of shell gauges; the Chemistry Departments undertook the inspection of explosives and research into the production of drugs, dyes, edible oils; the School of Tropical Medicine became a military hospital for tropical diseases; and the Veterinary School became a consultative centre for the North-West Command.

Staff who remained on campus found themselves displaced from

their University roles; William Gilmour, Head of the School of Dentistry in 1916, treated facial injury patients in France; engineer and architect Sir Charles Reilly was an Assistant Inspector of Munitions; Sir Ronald Ross and JW Stephens were consultants on malarial diseases; Professor Share Jones organised veterinary hospitals in France; and Sir Robert Jones from the Department of Surgery ran a military orthopaedic hospital at Alder Hey.

The four years of war put a great strain on the University. Income from student fees was significantly reduced, lectures were restricted to mornings so students could be free for war work, and some departments were forced to close down completely.

By 1916, student numbers had fallen from 1,178 to 706 and the roll call of staff and student casualties totalled more than 200, including four members of the teaching staff. Their names are now inscribed in a memorial at the University's Victoria Gallery & Museum.

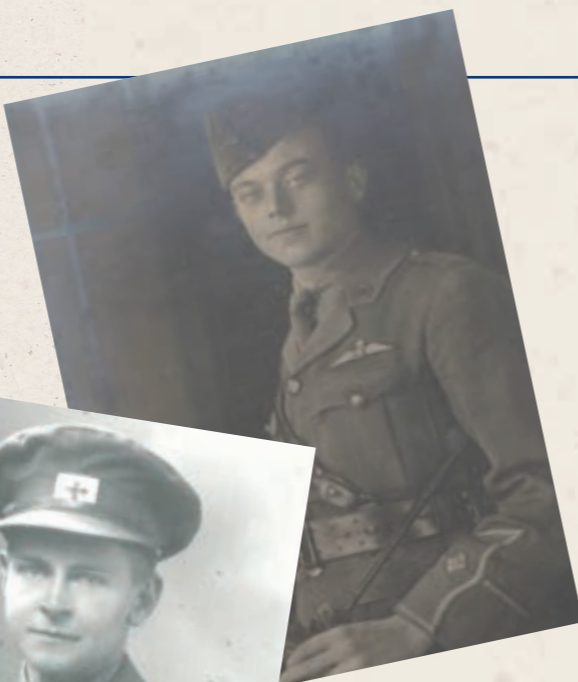


↑ Olaf Stapledon (1886–1950)

Olaf Stapledon, the influential science fiction author and philosopher, served as a conscientious objector in the Quaker Friends Ambulance Unit in France and Belgium. He survived the war and was awarded a PhD in Philosophy from the University in 1925. He used his thesis as the basis for his first published prose book, *A Modern Theory of Ethics* (1929). The picture above, taken in July 1915, is stored in the University's Stapledon archive.

➔ Professor EE Glynn (1873–1929)

Professor EE Glynn was George Holt Professor of Pathology between 1912–28. He served as a captain in the Royal Army Medical Corps during the war and was commended for Home Service. He is pictured in his army uniform on the far left of the front row.



← Lieutenant Francis Chisholm Young (1897–1917)

Lieutenant 'Frank' Young was the son of mathematician William Henry Young (1864–1942), Associate Professor (1912) and Honorary Chair in Philosophy and History of Mathematics (1913–1919) at the University. A 2nd Lieutenant of the Royal Flying Corps, he died in service in 1917 aged 20.

In a letter stored in the University's archives, his colleague and friend wrote: "His Squadron Commander, Leman, told me that he considered that he would have made one of the finest pilots in France if he had lived. The day before he died he had four fights in the air and described it as the finest day he had ever had. On the last day he and his observer must have been in some way surprised. They were flying at about 5,000 feet and nine German planes dropped down from about 12,000 feet and suddenly fired into them. Of course they had not a chance."



← Captain Noel G Chavasse (1884–1917)

Captain Noel G Chavasse, whose heroism is commemorated with a statue in Abercromby Square, was a former student of both Liverpool and Oxford who became a lieutenant in the Royal Army Medical Corps. He served in France and Belgium, attending to wounded soldiers for hours on end amidst heavy gun fire and often in frequent view of the enemy, and saving the lives of more than 20 men.

He died at around 1pm on 4 August 1917, after being struck by a shell while resting at his First Aid post. His bravery led him to become the only individual to be awarded both the Military Cross and the Victoria Cross and Bar 'for most conspicuous bravery and devotion to duty'.

He is buried in the Brandhoek New Military Cemetery, Belgium, where his headstone reads: "Greater love hath no man than this, that a man lay down his life for his friends."



The Liverpool Pals

Within weeks of the outbreak of war, Lord Derby put forward the idea of a battalion drawn from the Liverpool business workforce.

Volunteers were asked to turn up at The King's Regiment Liverpool HQ in St Anne Street on 28 August, 1914, and extra rooms had to be opened to deal with all the men who wanted to enlist.

Addressing the volunteers, Lord Derby said: "I don't ask you to uphold Liverpool's honour, it would be an insult to think that you could do anything but that."

"But I do thank you from the bottom of my heart for coming here tonight and showing what is the spirit of Liverpool, a spirit that ought to spread through every city and every town in the kingdom."



5 VICTORIA CROSSES

26 DISTINGUISHED SERVICE ORDERS

101 MILITARY CROSSES

84

MEMBERS of UNIVERSITY TEACHING STAFF

39

OTHER EMPLOYEES

555

STUDENTS

995

FORMER STUDENTS

WERE ALL IN ACTIVE SERVICE DURING THE FIRST WORLD WAR

From
BLACKBOARD
to red
carpet



Self-confessed maths geek Michael Steer (BSc Hons Mathematics 1998) never imagined that his love of teaching would eventually see him nominated for a BAFTA, hobnobbing with Ricky Gervais on the red carpet, and exchanging flirtatious tweets with Myleene Klass.

He is known to many as the straight-talking Deputy Head of Dewsbury's Thornhill Community Academy on Channel 4's documentary series, *Educating Yorkshire*, but Michael's own time as a student was far from exemplary.

"I was a terrible student," admits Michael. "I did the bare minimum to scrape through. I deliberately selected modules that had the fewest number of lectures, and I often didn't even turn up to them."

"I really enjoyed living in Liverpool and I had a great time at university but, if I have one regret, it's that I didn't apply myself more. I got a 2:2 in the end, but I know I could have done so much better. At least when I'm speaking to my students about higher education, I'm a good example of what not to do."

Michael took a job at a high street bank after graduation, and quickly rose through the ranks to become a student business advisor, but soon realised he wanted to be back on the other side of the counter. He did a PGCE, specialising in maths, and found himself on a placement at Thornhill Community Academy.

"I remember my tutor apologising for sending me there," says Michael, "It was initially quite terrifying, but something about the place resonated with me, so when they offered me a job I felt it was somewhere I could make a real difference."

Five years later Michael was appointed Deputy Head and was instrumental in the decision to open Thornhill's doors to the cameras.

"In the last six years, Thornhill has gone from being one of the worst performing schools in the country to the most improved school in the Yorkshire area and in the top 6% of schools nationally," explains Michael. "So we felt we had a great story to tell."

Educating Yorkshire was watched by around four million people and has gone on to receive numerous awards, including a National Television

Award, a Royal Television Society Award and a BAFTA nomination for best factual series.

"The National Television Awards was the first big thing we did," recalls Michael. "I was on the red carpet standing next to Kelly Brook with photographers shouting my name, which was quite surreal."

"Perhaps the best moment, though, was being in the nominees' room backstage (which is brilliant enough anyway) and Ricky Gervais came over, shook my hand and said how much he liked the show."

And what about the rumours that Myleene Klass has a crush on him?

"I'm not sure about that!" he laughs. "I invited her to present the certificates at our GCSE award ceremony and she tweeted something like 'On my way to Thornhill Academy. Hope I meet Mr Steer *swoon.*' She was very sweet and we exchanged a few texts, but it was all very professional!"

"It was strange when the first ad for *Educating Yorkshire* appeared in the break of *Coronation Street*," says Michael. "It included a clip of me shouting at a child, completely out of context, which initially cast me in a very bad light. In fact, *Heat* magazine called it 'the most horrifying TV moment of the summer'! But in the end, as people got to know me on the show, the public reaction has been overwhelmingly positive."

While Michael admits that being a "temporary media celebrity" has led to some extraordinary experiences, such as appearing on quiz show *Pointless* and hosting the Yorkshire Television Awards, it hasn't completely changed his life.

"For me, the show just reinvigorated my passion for teaching," says Michael. "It was fun to be a 'Twitter sensation' for a while, but now I'm planning timetables and looking ahead to the academic year."

"I've got no regrets about doing *Educating Yorkshire*, but my ambition is still to get my own headship and continue making a difference to students' lives." ●

CHANGING LIVES ACROSS THE GLOBE

Students and alumni of the University of Liverpool's online master's programmes are having an impact right across the globe – from Pakistan's Swat Valley to Africa's highest mountain, and from the Gulf to a futuristic venture in Frankfurt, Germany.



Educating for health

Ambreen Naveed Haq (currently studying online for a Master of Public Health)

For nearly two decades, Dr Ambreen Naveed Haq, a 43-year-old mother of three, has operated an obstetrics and gynaecology practice in the heart of Pakistan's capital, Islamabad.

Last year she began studying online for a Master of Public Health, driven by her belief that to improve health conditions in her country there needed to be a change in both behaviour and society.

Shortly after starting her online degree, Ambreen learned about the Swat Relief Initiative, an organisation committed to improving conditions in the rural northwest corner of Pakistan, which was previously under Taliban rule. World attention was focused on the plight of women there in 2012, when Swat Valley teenager Malala Yousafzai was shot in the head while defending the rights of girls to attend school.

Ignoring friends' warnings about Swat Valley's dangers, Ambreen

contacted the relief organisation with a plan to improve women's health and reduce maternal mortality through education, prenatal care and economic empowerment.

In July 2013 she boarded a bus in Islamabad carrying boxes of medication and nutritional supplements for pregnant women. She also brought machines to test patients' blood and oxygen. Five hours later, she arrived in the Swat Valley. The hospital was dirty and lined with patients, many of whom were anaemic. Some were ready to deliver their twelfth child. "The women there were in the worst possible shape," Ambreen recalls. There was no electricity, so she pressed the administrators to find a generator to power her machines.

One day, a pharmaceutical company's representative took her on a tour of nearby villages. Many villages scoffed at her suggestion that they use contraception. "This isn't just religious – it's a cultural issue too," Ambreen says. Female doctors confessed they hadn't been taught to use medical equipment, in part because they couldn't leave their families to travel to

Islamabad for training, so she offered to teach them. She met with tribal chiefs to explain how women's health is crucial to their tribes' futures. "It was a breakthrough moment," said Ambreen.

Now, back at her base in Islamabad, and continuing her online MPH studies, Dr Haq holds three-hour Skype sessions each week with the Swat Valley's female health workers on ultrasound procedures, breastfeeding and prenatal and postnatal care. Every two months she visits Swat to deliver live workshops. With the guidance of scholars and tribal and religious leaders, she is also developing a manual that deals with domestic violence and adoption, and explains that certain forms of contraception are not at odds with the Qur'an. Ultimately, she hopes to replicate the Swat Relief Initiative's model to improve healthcare for all Pakistani women.

"This is about more than health," explains Ambreen. "This is about building a community – breaking the cycle of intolerance and enabling people to hold themselves accountable."

Reaching for the top



Malek Zouki (MSc Operations and Supply Chain Management 2013)

MSc graduate Malek Zouki loves a challenge. He is using the knowledge and skills he gained in his online master's to devise new strategies and business processes in Middle East supply chains.

"One of the achievements that I'm

proud of is that I have managed to improve sourcing through Middle East localisation," said Malek, who works for an international company in Dubai managing the sourcing of materials for vital components for the Middle East electrical sector.

Malek is keen to use his degree to advance his career; however, he also dreams of becoming a world-class mountaineer after taking time out to climb Mount Kilimanjaro earlier this year.

Malek was one of a group of volunteers who accompanied two teenage amputees to the top of Africa's highest mountain. Both youngsters had lost a leg and had to use their

prosthetic limbs and upper body strength to reach the summit.

"These two kids managed to reach the summit despite all the difficulties from weather, fatigue and altitude," said Malek. "The word 'impossible' doesn't exist anymore in my dictionary."

The daring 'Climb of Hope' adventure was organised by the Palestine Children's Relief Fund – a non-profit organisation that provides medical and humanitarian aid to children in the Middle East. "In Lebanon, where I grew up, I liked to go up the mountains for snowboarding," said Malek. "But this climb was really something else. It really elevated me to a different place."

Smart living



Nicolas Becker (MSc Internet Systems 2013)

Alumnus Nicolas Becker works for a futuristic company in Germany which is creating a smarter way of living, one piece of code at a time.

The 32-year-old MSc graduate is a software developer for Mediola - Connected Living AG, a Frankfurt technology company that enables clients to control their homes and offices remotely from their smart phones and other mobile devices.

"Today, turning on your lights from anywhere in the world is already possible," said Nicolas, who studied online for his master's. "But this year a lot has happened around 'smart homes' and the 'Internet of Things' - a proposed development in which everyday objects are connected to the internet - with key players like Google, Apple and Microsoft entering the sector. It's a really exciting time to be a developer."

One of five developers at Mediola, Nicolas focuses on the design and development of front-ends and apps,

using various web technologies. His typical day involves writing, testing and debugging code and creating documentation, as well as developing and testing new solutions with colleagues - all with a view to reaching new heights in smart living.

"Smart homes and applications already exist, but it depends on how you define smart. Turning on the lights at home while you are 2,000 miles away to make people believe that you are at home is somewhat smart. However, creating an entire simulation where blinds go up and down at random times and lights and TV/entertainment systems create the illusion that you are home - that makes your home a lot smarter," said Nicolas.

The same is true of offices, where sensors embedded in heaters and connected to the internet can be used to remotely control more than just the temperature. "If sensors in an office are designed to recognise that the CO2 output is over a certain threshold, they can trigger actions to regulate it by switching off lights and heaters and closing or opening windows once everyone has left the building. Your office immediately becomes a lot smarter," Nicolas explained.

Although there are risks involved in connecting your home or office to the internet, Nicolas sees huge potential in areas such as ambient assisted living, health, automation or security. "The Internet of Things is based on sensor and actuator networks and I believe that once the technology evolves further and becomes affordable for everyone, most homes and especially offices will be equipped with some sort of 'smart' technology," he said.

For his own future, Nicolas has various aspirations: possibly a PhD with research into the Internet of Things, more travel to the US and UK where he previously lived, and definitely his own smart home. ●

"Smart homes and applications already exist, but it depends on how you define smart."

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Building

A HEALTHIER WORLD FOR OUR CHILDREN

The University of Liverpool is the UK's leading centre for research into medicines for children, bringing together the expertise of world-class researchers from across a range of disciplines both within the University and at nearby Alder Hey, one of the largest children's hospitals in Europe.

For many years, Liverpool has led the way internationally in supporting delivery of clinical trials for children and young people. At Alder Hey, the University hosts the national coordinating centre for the National Institute for Health Research (NIHR) Clinical Research Network: Children's Theme, which has dramatically increased and significantly improved the co-ordination,

speed and quality of randomised controlled trials and other studies of medicines for children and adolescents.

Researchers from the University's Centre for Drug Safety Science are also working with Alder Hey to examine the thousands of patients in the UK who come into hospitals showing potential signs of adverse reactions to drugs. Although children and young people are the most frequent users of healthcare provision in the UK, many potentially life-saving drugs are never clinically tested for children, so researchers are working to produce guidelines for accurately monitoring and assessing drug safety and dosage, and to support new drug development.

The treatment of childhood arthritis is another area benefiting from the University's collaborations with Alder Hey; Liverpool has one of the country's leading centres for research into this field, undertaking clinical trials of novel drugs for childhood arthritis and contributing to the development of the first new drug for arthritis in 50 years that is fully licensed for children. This year, Liverpool successfully became the

UK's only National Experimental Arthritis Treatment Centre for Children.

Director of the Centre, Professor Michael Beresford, said: "Children and young people with arthritis have been slow to benefit fully from new treatments. We have the expertise within the Centre to ensure that in future children will be among the first to receive new medicines that are safe and effective and will improve their health, wellbeing and quality of life."

Cutting-edge research is also being conducted into respiratory viral infections in children, paediatric autoimmune rheumatic disorders, and detection of biomarkers to improve the management of serious bacterial infection, cystic fibrosis and asthma, while a team from the University's Institute of Integrative Biology are currently searching for clues to a serious bowel condition which affects thousands of premature infants in their first few weeks.

Using a variety of techniques, including genetic sequencing and gas chromatography mass spectrometry, the team is looking for patterns in the bacterial makeup of 13,000 children's stool samples to find the causes of necrotising enterocolitis, more commonly abbreviated to NEC, which causes tissue in the intestine to become inflamed and die.

"The bacterial makeup of the gut is extremely complex," PhD researcher Nicholas Ellaby (BSc Hons Biological Sciences 2011, MRes 2012) explains. "But what we're predicting is that there will be a pattern in babies with NEC, and it's only by working with a large number of samples that we can gather enough data to identify this."

Access to large data samples is one of the many benefits of the University's close working relationship with Alder Hey, which will be further enhanced in 2015 when the new £288 million Alder Hey in the Park opens.

Based on the site of the existing Alder Hey hospital in Springfield Park, the state-of-the-art hospital will include 270 beds, spacious wards, improved clinic areas, education and research facilities, new operating theatres, and an Accident and Emergency department.

Each patient will benefit from views of green space or parkland and there will also be play areas, dedicated places where patients can relax, and next generation

technology which will improve the way healthcare is delivered - from keeping patient records to dispensing medicines by robot.

In tandem with this, the University is currently fundraising for a research and education facility to be located just 40 metres from the new hospital. Building on the University's position as the UK's leading centre for research into medicines for children, this facility will enable researchers to push forward breakthroughs in child health by working together under one roof and benefiting from easy access to samples and patients.

The University and Alder Hey are working in partnership to develop and raise funds for the building, equipment and research. £14.8 million of the £25 million required has already been raised, including a gift of £1 million from the Wolfson Foundation and a pledge of £75,000 from Liverpool alumnus Huw Jenkins (BA Hons Social Studies 1980).

Huw said: "This is a really important project for Liverpool and I'm very happy to be able to support an area of research in which the University excels."

Peter Hynd, of Neptune Investments, who donated £100,000, said: "I've seen the great work that the University of Liverpool is doing with the new Centre for Better Births at Liverpool Women's Hospital and everyone knows that Alder Hey is outstanding. I'm proud to support the University on such an important project for children's health in Merseyside and beyond." ●

In the run up to Christmas, Matalan is supporting Alder Hey Children's Charity by selling Alphabet Scarves to raise funds for the new Research and Education Centre that is being built next to the new hospital in Alder Hey in the Park.

This exciting campaign is supported by celebrities in the UK and US and the funds will help Alder Hey and the University of Liverpool to lead the world in ground-breaking research to help the lives of children everywhere. To find out more, visit: www.matalan.co.uk/alphabetscarves.



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Ambassador impact

Jason Han (MSc Management 2012) was appointed Alumni Ambassador for Beijing in September 2013.

Since taking responsibility for coordinating a network of more than 300 graduates in the Chinese capital, Jason and his team of volunteers have introduced a programme of events, offered support in recruiting the next generation of students, and established links with other Liverpool networks across the country.

Highlights have included a reception for 100 people, hosted by Vice-Chancellor Professor Sir Howard Newby at the British Ambassador's Residence; a careers event with the Management School (pictured above); a networking session with a Halloween theme; and an HR workshop.

By building a network for alumni to receive support in their life and career, and identifying graduates to support the University in areas like

recruitment and graduate employability, Jason and his team are making a real impact.

"It is my pleasure to be an Alumni Ambassador," said Jason. "I love the role because I want to help the University and its links in Beijing. For me this is the best way to do that."

Jason is one of several graduates who coordinate a network for Liverpool alumni living in their area; however, this is just one of the many ways in which alumni support the University.

If you're interested in finding out about our range of volunteering opportunities - from helping to recruit the next generation of students, to becoming a student mentor, or supporting our graduates to get their foot on the career ladder - visit: www.liverpool.ac.uk/alumni/get-involved. ●



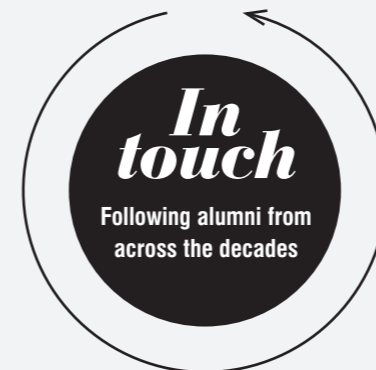
Above: Jason is relishing the opportunities his position as Alumni Ambassador presents

tasting evening. Future events include a visit to a nearby observatory and a local archaeology site.

We are always looking for new members to join us and continue our evolving 90-year association with the University. For more information, please visit: www.liverpool.ac.uk/womensclub.

90 YEARS of friendship and learning

The University of Liverpool Women's Club provides an opportunity to meet people and make new friends, broadening your connections in Liverpool. The club offers a varied programme, with recent events including lectures about CERN's Large Hadron Collider, the Reader Organisation and the Royal Liverpool Philharmonic Orchestra; visits to local areas of interest; and a wine-



Ron Webster (Certificate in Social Science 1949) avoided a £4,500 fine when he returned a course book to the library 61 years late! Ron (pictured above with University Librarian Phil Sykes) returned the book, which he originally took out as a research assistant in the University in 1953, on a recent visit to Liverpool with his son-in-law, Rick.

» 1960s

John Ansell (BSc Hons Biochemistry 1969) has spent the whole of his career in pharmaceuticals. He is a senior partner with TransScrip Partners and an independent business consultant. His first book – *Transforming Big Pharma-Assessing the Strategic Alternatives* – was published by Gower Publishing.

Lorna Anne Brown MRCVS (née Fraser) (BVSc 1966) is the co-founder of community charity 'Dolen Ffermio' (Farming Link), which links her local Welsh area with two areas of Eastern Uganda through livestock and environmental projects, children's projects and school links. Visit: www.dolen-ffermio.co.uk.

Dr Stephen Morris Coppell (BSc 1969, BSc Hons Chemistry 1970, PhD 1973) joined the Health and Safety Executive (HSE) in 1976 and currently works as HM Principal Inspector in Bristol. His daughter **Danielle Elise Coppell** (BA Hons 2008) followed him to the HSE in 2009 and works as a construction inspector in London.

Dr Barry Johnson MRCVS (BVSc 1969, Hon DVSc 1994) was sworn in as the new High Sheriff of Lancashire in April 2014. Dr Johnson, former President and current elected Council Member of the Royal College of Veterinary Surgeons and the current Chairman of World Horse Welfare, spent his career in veterinary practice and once served as the vet to the Lancashire Constabulary's mounted section.

Cliff Jones (BA Hons Political Theory and Institutions 1966, MEd 1987) is a fellow of the International Professional Development Association, in recognition of his outstanding achievements in the promotion of individuals and schools to engage in research activities, thus making a significant contribution to improved learning, teaching and school improvement.

Dr Roger Key MBE (BSc Hons Geology 1968, PhD 1972) has, after a 38-year career →

» 1940s

Philip N Bird (BEng 1944) retired 25 years ago and is the proud father of three children – two of whom studied at the University of Liverpool – and grandfather of seven.

Cyril Morris JP (BArch 1949) is the co-author of *Preservation and Progress: the story of Chester since 1960*, which was published by the Chester Civic Trust to celebrate its golden jubilee. Cyril, along with **James Latham** (BArch 1952, MCD 1953), is a founder member of the Cheshire Society of Architects, for which they recently received an award from Stephen Hodder, President of the Royal Institute of British Architects, to mark the organisation's 50th anniversary.



l to r: Stephen, Cyril and James

Oswald John Oliver (BEng Hons Civil Engineering 1949) has retired from Buckinghamshire County Council and in December 2012 was elected as Chairman of the Aylesbury Centre of the National Trust, the local supporters' group.

» 1950s

Hilary Mary Barnes (née Harris) (BA 1958) is a retired social worker in Liverpool working with elderly and disabled people. Since 1976 she has been an avid hand spinner and taught for Lancashire County in Preston. At the age of 79, most of Hilary's time is now spent spinning and knitting.

Margadel Jean Biran (née Dillon) (BA Hons English Language & Literature 1958) has published her third novel under the pen name Jane Biran. *Hope Street* is set in Liverpool and London, beginning in the 1960s and spanning five decades in the lives of two very different women. The book is available from Amazon.

Dr Barry Anthony Enoch FRCP (BSc Hons Physiology 1959, MBChB 1962), President of the Guild of Undergraduates 1962–63, has now retired after 40 years as a consultant physician and endocrinologist in Manchester.

Anthony Lance Silson (BSc Hons Geography 1959, MSc 1961, Certificate in Education 1962) has now retired, but is still busy writing and had two articles on local geography and history published last year.

His Honour Donald Brian Williams (LLB 1953) has published the 10th edition of the *Guide to Motor Insurers' Bureau Claims*, which offers a concise outline of the scope and workings of the Motor Insurers' Bureau and is available to order online from: www.lawsociety.org.uk/bookshop.

IN TOUCH

with the British Geological Survey, set up his own consultancy - Kalahari Key Ltd - which specialises in the geology of Africa and offers a Mandarin-English geoscientific translation service.

Emeritus Professor Trevor Alan Norton FRSE (BSc Hons Botany 1963, PhD 1966) is Emeritus Professor at the University of Liverpool and has written a book, *Imagination and a Pile of Junk* – a light-hearted look at the history of inventors and inventions, published by Coronet.

John Rothery (BSc Hons Chemistry 1966), since retiring in 2009 from a career in occupational safety and health, has been compiling a book about jazz musician Sidney 'Big Sid' Catlett, the favourite drummer of Louis Armstrong. The 160-page limited edition book has been deposited with a number of libraries and archives, including the University of Liverpool Archives.

William Solesbury (MCD 1963) worked for many years as a town planner in the UK and abroad. Following on from his continued enthusiasm for visiting new places, he has written a book, *World Cities, City Worlds – explorations with metaphors, icons and perspectives*, which provides a fresh insight into cities and city life from both the past and modern times. Published by Troubador Publishing Ltd.

» 1970s

John Desmond Bishop (BA Hons Social Studies 1976, MA 1979) retired this year after 32 years as a sociology lecturer. He says that without the University he would not have had his rewarding and enjoyable career.

James Dempsey (BA Hons English Language & Literature 1976) is an instructor in Humanities and Arts at Worcester Polytechnic Institute in Massachusetts, US. He has published *The Tortured Life of Scofield Thayer* – a biography of the conflicted promoter of modernism, and friend, patron and cuckold of EE Cummings.

Captain Eric Howard (BSc 1976, BSc Hons Physical Geography and Geology 1977) served in the RAF as a pilot and flew the Nimrod, seeing active service in the Falklands campaign of



Peter Lake (BSc 1972, BSc Hons Psychology 1973, Cert. in Education 1974), former General Secretary of the Athletic Union, completed the 2014 cycling event: *L'Etape du Tour*, from Pau to Hautacam in the Pyrenees.

1982. In 1989 he joined British Airways, flying Boeing 757s and 767s. In 1995 he converted to the Boeing 747-400 and is now a captain and flies all over the world. He is married to an airline purser and has two children.

Eric Gilhooley (BSc Hons Zoology 1976) has retired after 35 years at St Robert of Newminster School and Sixth Form College in Washington, Tyne and Wear. During his time he worked as a biology and science teacher, Head of Biology, and Head of Science. He is hoping to spend more time as a volunteer with Teesdale and Weardale Search and Mountain Rescue Team.

Ian McKee (BA Hons Geography 1977) is a senior casework executive at Hull Land Registry and has worked for HM Land Registry in three different offices over a career spanning 36 years. He has been married to **Carolyn McKee (née Jones)** (BA Hons French 1980) for 33 years after meeting at the University as students. Carolyn is Head Teacher of Springhead Primary School in Hull.

Linda Catherine Shuttleworth (née Morrison) (MPsychol 1978, Diploma in Psychotherapy 1985) is a clinical psychologist for the Cheshire and Wirral Partnership (CWP) NHS Foundation Trust and is involved in developing a mental health partnership between CWP and Kisizi Hospital in South West Uganda.

Dr Valerie Warr (née Coghlan) (BEng Hons Mechanical Engineering 1970, PhD 1975) is Director of the Heswall Arts Festival and manager for the L'Orchestra dell'Arte, a group of talented musicians who perform as a salon or symphony orchestra. Visit: www.dellarte.co.uk.

John Thomas Wrigley (BSc Hons Biochemistry 1974) recently retired from his

post with the North Cumbria University Hospital NHS Trust as Pathology IT Manager across East/West Cumbria and hopes to develop his interests in music and travel.

» 1980s

Carol Elizabeth Abbasi (née Mason) (LLB Hons 1980) is a partner and Head of the Private Client team at Morecrofts LLP solicitors in Liverpool. She was part of the 'Merseyside Private Client Team of the Year 2013', awarded by the Liverpool Law Society, and is a member of Soroptimist International.

Michael Ashton (MEd 1989) is Chief Executive of Herefordshire & Worcestershire Chamber of Commerce and was awarded British Chambers of Commerce Chamber of the Year 2013 and Worcestershire Ambassador of the Year 2011. He is married to **Dr Diane Taylor** (MBCb 1981).

Trinidad Cruz (BSc Hons Marine Biology 1980) undertook postgraduate studies at the University of London, St George's Hospital. In 1984 he started in banking and is currently Director at Credit Suisse in Gibraltar. He has published a number of poetry books in Spanish and has an interest in promoting philanthropy. He recently organised the first Gibraltar Philanthropy Forum Conference. He is married and has four children.

Dr Aidan Mark Dodson (BA Hons Archaeology 1985) has been teaching Egyptology at the University of Bristol since 1996, where he is currently a Senior Research Fellow. He spent the spring 2013 semester as William K and Marilyn M Simpson Professor of Egyptology at The American University in Cairo and is now one of the general editors of their new History of Ancient Egypt series. His latest book, *Amarna Sunrise. Egypt: from golden age to age of heresy*, has been published by the American University in Cairo Press.

Julian Earl MRCVS (BVSc 1981) is a veterinary surgeon in Horncastle and in 1991 became a world record holder. He cycled from Land's End to John O'Groats for charity in 41 hours, 28 minutes, 26 seconds, although his record has been beaten since!

Fiona Glass (née Rubbra) (BA Hons Ancient and Medieval History and Archaeology 1985) has published her second novel. *Gleams of a*

Remoter World is a haunting tale of restless ghosts and forbidden love, set on Ireland's remote west coast. The book is available to purchase on Amazon.

Gareth Purnell (BSc Hons Geography 1987) presents a television channel for anglers, Fishing TV, and is the sports betting analyst for *The Independent* newspaper. He also runs several sports betting and fishing websites and apps.

Phillip Richard Swift (BEng Hons Mechanical Engineering 1988) is Director of THS Rail, a rail construction company in Hong Kong.

» 1990s

Kai Hughes (BA Hons Psychology 1997) is Honorary Consul for the Republic of Estonia and has been elected as President of the Liverpool Consular Corps.



Abila Pointing MBE DL (MA Sociology & Social Policy 1994) was installed as the new High Sheriff of Merseyside at a special ceremony in the Victoria Gallery & Museum in April 2014. Abila, who also sits on the University Council, gained her MBE for voluntary work in prisons in Liverpool and Manchester. At the latter she was the Governor's personal adviser in race relations, which is one of her specialisms.

Raymond Pyke (BA Hons Combined Subjects 1994) has published two books: *The Touch of the Universe* and *The Virgin Spirit*. Both are available from Amazon.

Philip Alan Robinson (MSc Eng Maritime Civil Engineering 1993) is a network planning manager in the Department for Regional Development – Transport Northern Ireland and

has become a fellow of the Institution of Civil Engineers, London.

Andrew Paul Smith (BSc Hons Geography 1998) started a new healthcare company last year to revolutionise healthcare commissioning and provision in England.

Dr Alison Whybrow (BSc Hons Psychology 1990, PhD 1995) is an award-winning chartered and registered psychologist and has published a book in collaboration with Alan Williams, Managing Director of Service Brand Global. *The 31 Practices* shows how an organisation's values and brand can be translated into daily practices and to the behaviour of their employees – from the boardroom to the front-line customer experience. The book is available on Amazon.

» 2000s

Thomas Betts (BSc Hons Computer & Multimedia Systems 2007) has started his own tree surgery business. Woodpecker Tree Care offers commercial and domestic arboricultural services. Visit: www.woodpeckertreecare.co.uk.

Paul Evans (BA Hons Business Studies 2009) is Director of Financial Claims in Liverpool, and has helped to reclaim more than £1 million in mis-sold PPI for Armed Forces personnel.

Dr Paul Johnson (BSc Hons Computer & Multimedia Systems 2005) held an engineering lectureship at the University of Shanghai for Science and Technology throughout 2013 and has recently started working at Jaguar Land Rover as a Process and Quality Engineer.

Kevin Douglas Skinner (BA Hons Accounting 2000), having worked for Ernst & Young for 13 years, has recently left to take over the family construction business, Kennaugh & Skinner, in the Isle of Man. He enjoys boating, golfing and socialising with friends and family.

Daniel Tyte (BA Hons English Language & Literature 2002) has written his first novel *Half Plus Seven*, published by Parthian Books. The Welsh national newspaper, the *Western Mail*, named him as the 'Writer to Watch for 2014', and his short story *Onwards* opens a collection of contemporary stories called *Rarebit*, which was published in January this year.

Philip Valiente (BA Hons Hispanic Studies 2002, MA Latin American Studies 2003) and **Marianne Christina Valiente (née O'Reilly)** (BA Hons Combined Honours 2002) set up and run Feed Me Mummy, which sells an award-winning breastfeeding vest designed by Marianne. Visit: www.feedmemummy.co.uk.

» 2010s

Dr Ibrahim Sebutu Bello (MPH 2013) is a family doctor who is leading public health initiatives to control and eradicate malaria in his home country of Nigeria. Dr Bello is reaching the poorest communities via appearances on the radio and in market places, in a bid to educate the public about the importance of vaccination. Dr Bello said: "Malaria is the predominant disease in primary healthcare settings in Nigeria. We need to invest in prevention rather than sinking all resources in purchasing drugs and fluids."

K S Madusanka Fernando (BEng Hons Mechanical Engineering with Management 2012) is Director-Technical at St Theresa Industries, a metal fabrication company in Sri Lanka, whose company has been able to manufacture 33 KV and 132 KV power transmission towers for the first time in Sri Lanka.

Poppy Frost (BA Hons Criminology & Sociology 2012) worked as a mentor with the Liverpool Probation Service for a year before travelling the world and visiting Canada, South America, Australia and New Zealand.

Roger Tangry (LLB Hons 2011) has completed an LLM program in International Business and Corporate Law at Boston University School of Law. He has worked on a project for a non-profit organisation in Washington DC, advocating for greater transparency and accountability at the Board of Directors of the World Bank, including drafting legislation and policy initiatives.

If you would like your news to be featured in the next edition of *insight* let us know. Email: alumni@liverpool.ac.uk with 'In touch' in the subject line.

ALUMNI

› **Dr Wendy Anne Beryl Allen (née Fairhurst)** (MBChB 1955)

› **Richard Cameron Anderson** (BEng 1964)

› **John James Andrew** (BSc Hons 1953, Dipl in Education 1954)

› **Colonel William Edward Iredale Armstrong OBE TD, DL** (BEng Hons 1941, MEng 1943)

› **Professor Alan Astbury FRS** (BSc Hons 1956, PhD 1961, Hon DSc 2003)

› **Alan Atkinson** (BSc 1969, BSc Hons 1970, Cert in Education 1971)

› **John Headland Ayers** (BEng Hons 1951)

› **Robert Andrew Barlow** (BSc Hons 1987)

› **Richard Craig Belfield** (BEng Hons 1985)

› **Richard Michael Bend** (BEng 1973)

› **Barbara Bingham** (BA Hons 1946, Dipl in Education 1947)

› **Dr Peter Driscoll Booker** (MD 2002)

› **David Richard Bourne** (BEng 1959)

› **William Graham Brown** (BA Hons 1969)

› **Professor Andrew Kenneth Burroughs** (MBChB Hons 1976)

› **Benjamin James Carroll** (BSc Hons 2008)

› **Stuart Paterson Cassie** (BA Hons 1962)

› **Lyndon Fraser Cave-Brown-Cave** (Dipl in Arch 1947)

› **Matthew Paul Christie** (BSc Hons 2001)

› **Ingrid Jill Clarke** (Board of College Studies 1988)

› **Dr Kenneth George Corless** (BEng Hons 1953, PhD 1958)

› **Dr William Keith Cowan** (MBChB 1950, MD 1961)

› **Canon Michael Harry Cross MRCVS** (BVSc 1950)

› **Holly Angharad Davies** (BA Hons 1997)

› **Dr Malcolm Henry Dean** (BSc Hons 1953, PhD 1956)

› **Robert Sharp Dugdale (formerly Dugdill) MRCVS** (BVSc 1942)

› **Desmond Harold Dutton** (Dipl in Business Admin)

› **Jane Lesley Eggleston (née Ellinsworth)** (BA Hons 1990)

› **Dr John Baptist Fallon** (BEng Hons 1958, PhD 1965)

› **Anne Winifred Farrer (née Brogden)** (MA 1997)

› **Flora Stewart Figgins (née McVey)** (BA Hons 1963)

› **Andrew Fitzsimmons** (BA Hons 2013)

› **Julie Flynn (née Gallagher)** (BA Hons 1988)

› **Alastair Charles Campbell Furniss** (LLB Hons 1949)

› **John Gibbs** (BEng Hons 1971)

› **Dr Nicola Jane Gilbertson** (MBChB 1981)

› **Denys Halley Goose** (MDS 1961)

› **Michael Gorman** (BA Hons 1973)

› **Valerie Grant (née Globe)** (LLB Hons 1954)

› **Sir Clifford Harry Grant** (LLB Hons 1949)

› **Mary Louise Griffiths (née Lees)** (BDS Hons 1942)

› **Martin Lionel Guedalla** (BA Hons 1971)

› **Dr Thomas Henry Richard Hall** (PhD 1975)

› **Dr David Alan Halsall** (BA Hons 1968, PhD 1976)

› **Joan Alison Hamilton-Peters (née Wright)** (BA 1944, MA 1952)

› **Andrew John Hargrave** (MSc 2003)

› **John Philip Harrison** (BA Hons 1966)

› **Dr Wendy Hawes** (BSc Hons 1991, PhD 1995)

› **Dr Janet Higgin (née Hawcroft)** (MBChB 1959)

› **Philip John Higson** (BA Hons 1956)

› **James Crosby Hindson MRCVS** (BVSc 1954)

› **Barbara Jennifer Hitchon (née Clark)** (BA Hons 1962)

› **Dr Robert David Howard** (BSc Hons 1963, PhD 1966)

› **Dr David Hudgins** (MBChB 1968)

› **Dr Gareth Hughes** (MBChB 1956)

› **David Roger Illingworth** (BSc Hons 1967)

› **Joyce Marie Jackson (née Moore)** (BEd 1989)

› **William Martin Johnson MBE** (BEng 1950)

› **Dr Christine Elizabeth Jones (née Cain)** (MBChB 1975)

› **Glynne Hughes Jones** (BA Hons 1979)

› **Heather Kendall (née Brownrigg) MRCVS** (BVSc 2001)

› **Lyam Kirkham** (BA Hons 2010)

› **Dr Trevor Asher Kletz OBE** (BSc Hons 1944)

› **Dr Ulku Kuran** (PhD 1964, DSc 1973)

› **Reverend William Norman Leak** (BA Hons 1948)

› **Dr William Mervyn Frederick Leat** (BSc Hons 1952, PhD 1954)

› **Dr Ruby Margaret Lewis** (MEd 1985, MPhil 1988, Dipl in Spec.Ed 1975)

› **Emma Rosamund Lindley** (BA Hons 2000)

› **Andrew Grant Lloyd** (MSc 2011)

› **Keith Lockyer JP** (BA Hons 1961)

› **Mary Long (née Kerfoot)** (BA 1941, Dipl in Education 1942)

› **Dr Michael Francis Mangan** (BEng Hons 1963, PhD 1967)

› **Dr Mary McBride (née Gregson)** (MBChB Hons 1954)

› **Margaret McHutchon** (BA 1947)

› **Robin Maxwell McIntosh** (BSc 1965)

› **Stephanie Charlotte Mclean** (BA Hons 2011)

› **Ian Scott Melville** (BArch Hons 1948)

› **Ronald William Moore** (BEng 1954)

› **John Morris MRCVS** (BVSc 1948)

› **Aubrey Joseph Morris-Cohen** (BA Hons 1949)

› **Dr Thein Maung Myint** (MCommH 1978)

› **Dr Yan Goh Ng** (BEng Hons 1976, PhD 1983)

› **Dr Johnson Olutayo Odufalu** (BPhil 1968)

› **Ruth Louise Pacey** (BEd 1990)

› **The Honorable Dr Frank David Paterson** (LLB Hons 1940, HonLLD 1993)

› **Dr John Francis Pennock** (BSc Hons 1956, PhD 1959)

› **Patrick Desmond Pound** (BEng 1947)

› **Dr Md Rahmatullah** (PhD 1968)

› **Dr Elizabeth Rhind** (MBChB 1947)

› **Elizabeth Selwyn Richards** (BA 1950)

› **Mary Richardson** (BA Hons 1959)

› **Edward David Deirne Riley MRCVS** (BVSc 1953)

› **Gerard Aloysius Rimmer** (BSc 1951, BSc Hons 1952)

› **Jean Patricia Ritter (née Finch)** (BSc 1945, Dipl in Education 1946)

› **John Arthur Roberts** (BEng Hons 1939)

› **Dr William Glyn Roberts** (MBChB 1945)

› **Dr Dorothy Mary Roels (née Broadhurst)** (MBChB 1949, Dipl in TropMed & Hygiene 1952)

› **Robert Rummer** (BSc Hons 1976)

› **Glyn Sanders MRCVS** (BVSc 1954)

› **Frank Seddon** (BEng 1952)

› **Ian Hilton Sergeant MRCVS** (BVSc 1967)

› **Lucy Jane Shanks-Rickard** (BSc Hons 1999)

› **John Stanton Shirley-Quirk CBE** (BSc 1951, BSc Hons 1952, DipEd 1953, Hon DMus 1976)

› **Dr Kenneth Hubert Slatter** (MBChB 1943, MD 1957)

› **Brian Hunter Smart** (BSc Hons 1989)

› **Kenneth Isaac Smith** (BA Hons 1949)

› **Dr Michael Robert Smith** (BSc Hons 1973, PhD 1980)

› **William Stonehouse Stacey** (MA 1992)

› **Christopher Fyson Stell OBE FSA** (BArch 1955, MA 1960)

› **Dr Charles Walter Suckling CBE FRS** (BSc Hons 1942, PhD 1949, Hon DSc 1980)

› **Dr John Milne Swithinbank** (MBChB 1941, MD 1948)

› **Stephen Brian Taylor** (LLB Hons 2000)

› **Patricia Anne Thompson** (BA Hons 2003)

› **Geoffrey Neil Thorne** (BSc Hons 1969)

› **Ian Charles Thornton** (BArch 1956, MCivic Design 1957)

› **Dr Richard Charles Turnock** (BEng Hons 1944, MEng 1948, PhD 1953)

› **Ronald Tushingham** (BSc Hons 1950)

› **Jerrold Samuel Vickers** (BSc 1956)

› **Marcia Walters** (Bed Hons 1974, MEd 1987)

› **Joyce Warham** (BA Hons 1941, Cert in Social Studies 1942, MA 1967)

› **Rosemary Edith Wickstead (née Weir)** (BSc Hons 1988)

› **Michael Hallawell Widdows OBE** (BEng 1944)

› **Reverend Thomas Wilkinson** (MA 1953)

› **Sheila May Williams (née Roberts)** (BSc 1956)

› **Mark Timothy Wilson** (BDS 1983)

› **Michael Emanuel Wolff** (LLB Hons 1963)

› **Denis Gage Wray** (MChOrth 1961)

› **Dr Esme Maria Wren** (MBChB Hons 1945, MD 1953)

STAFF, STUDENTS, FRIENDS OF THE UNIVERSITY OF LIVERPOOL AND HONORARY GRADUATES

› **Dr Mohammad Akbar Ali** (Hon LLD 2006)

› **Dr Gerald Rushworth Beech** (Dip in Arch 1947, Dipl in Civic Design 1948, BArch 1952), former member of staff in the School of Architecture 1937–1988.

› **Valerie Bennett**, a Secretary in the Vice-Chancellor's Office 1968–1996.

› **John Brockbank**, former member of the Finance Department and a Friend of the University.

› **H Edward Cockerill**, a Friend of the University of Liverpool.

› **Professor Sir John Warcup Cornforth** (Hon DSc 1976)

› **Lady Florence Davies**, Honorary Fellow in the School of English and wife of former Vice-Chancellor, Professor Sir Graeme Davies.

› **Sir Colin Rex Davis** (Hon DMus 1973)

› **Professor Brian Eyre FRS CBE**, Professor of Materials Science 1979–1984.

› **Emeritus Professor James Pearse Fletcher**, Louis Cohen Chair of Dental Surgery.

› **Emeritus Professor Gerard Galletly** (BEng Hons 1947, MEng 1950, DEng 1977), member of staff in the School of Engineering 1964–1995.

› **Neil Gilbert**, who worked in the University Library from 2009.

› **Dr David Hall**, former member of staff in the School of Sociology, Social Policy and Criminology.

› **Kirstin J Hart**, who was studying for a BSc in Occupational Therapy.

› **Sharon Lockley**, coordinator for the Interchange Charity in the School of Sociology, Social Policy and Criminology.

› **Emeritus Professor Christopher Mee**, former Head of Department and Charles W Jones Chair of Classical Archaeology in the

School of Archaeology, Classics and Egyptology.

› **Emeritus Professor David Mills**, Professor and former Head of Department in the School of English from 1963–2003.

› **Dame Kathleen Ollerenshaw** (Hon LLD 1994)

› **Emeritus Professor Ralph Mansell Prothero** (PhD 1962), who worked in the Department of Geography 1955–1989.

› **Fred Runacus**, Maintenance Technician in Facilities Management 1969–2010.

› **Lady Lisa Sainsbury**, a Friend of the University of Liverpool.

› **Sir Nicholas Vernon Scheele** (Hon LLD 2000)

› **Jim Grahame Settle** (BSc Hons 1963, MSc 1965), member of staff 1975–2004.

› **Emeritus Professor Andrew Best Semple**, Professor of Public Health from 1953–1978.

› **Emeritus Professor Elizabeth Slater**, Garstang Professor of Archaeology, Head of Archaeology, Classics and Egyptology and Faculty of Arts until her retirement in 2007.

› **Adam Smith**, who was on his first year of study on a programme leading to a BSc in Chemistry.

› **Father Austin G Smith** (Hon LLD 2002)

› **Peter Smith**, former Estate and Development Officer.

› **David Southern**, former member of staff in the Department of Residential, Sport and Commercial Services.

› **John Desmond Taylor**, Friend of the University of Liverpool.

› **Robert (Bob) Turner**, Gardening Manager in Facilities Management.

› **Professor James Williamson CBE**, Chair of Geriatric Medicine 1973–1976.



FOCUS ON
Hong Kong

Hong Kong is home to more than 900 alumni and current online students, as well as Liverpool's oldest and most established Graduate Association.

The Association organises various events through the year to enable Hong Kong-based alumni to stay connected with each other, and with the University.

For the last 17 years, they have also provided financial assistance to hundreds of students studying at Liverpool. Last year, a generous donation by the Tung Foundation, founded by the late father of graduates Dr CH Tung (BEng Hons Marine Engineering 1960, Hon LLD 1997) and Dr CC Tung (BEng Hons Mechanical Engineering 1964, Hon LLD 2009), established the Tung Liverpool Scholarship, which supports students from Hong Kong and mainland China undertaking postgraduate study at Liverpool.

For more information about the Hong Kong Graduate Association, please contact Chairman James Lo (BEng Hons Civil Engineering 1980) by emailing lojames2010@gmail.com.



HONG KONG: AN INSIDER'S GUIDE

Alumnus Gary Wong (BSc Psychology & Neuroscience 2007) has picked some of his favourite hidden gems to visit in and around Hong Kong.

Tai Mei Tuk village (left)

Once a sleepy fishing village, Tai Mei Tuk is extremely popular with Hong Kong residents wanting to escape city life, yet remains relatively unknown to foreign tourists. Things to do include hiring a bike and riding along the Plover Cove Reservoir, hiking up the Pat Sin Leng Mountain, and sampling the local cuisine - including a traditional Cantonese hotpot traditionally served on special occasions at one of the many restaurants in the village.

Yuen Long

Despite being one of the New Territories' most bustling towns, Yuen Long isn't likely to be included in the itineraries of many foreign tourists. The town is particularly famous for its poached meatballs and many Hong Kongers travel from all parts of the city to eat in one of the many Yuen Long cafés serving this dish.

Mong Kok

Most travel guides will inevitably lead tourists to Stanley Market in the upmarket seaside town of Stanley in the south of the island. However, the real bargains are to be found in the many markets in and around Mong Kok, one of the most popular being the Ladies' Market. Don't be put off by the name though - in this market you will find a range of cheap clothes for both men and women, as well as toys, souvenirs, jewellery and household goods. Most stall-holders will only speak basic English at most, so it might be worth learning a few numbers in Cantonese if you intend to haggle for the best bargain!

Hong Kong is a food lover's paradise, and rightly so - it is often said that while most people eat to live, the Chinese live to eat! Great food can be found all around the city; however, the best food is often also the cheapest. Hong Kong's street food is a real delight, so if you find yourself drawn towards the aromas while you're out shopping, be sure to sample what's on offer.



Bargains galore: Mong Kok markets.

Foundation Launch

Thanks to the generous support of our alumni and supporters in Hong Kong, the University formally launched an independent charitable foundation in August 2014, which enables Hong Kong-based alumni and supporters to give to the University and ensure maximum impact from their gift.

The launch of the foundation was celebrated with an event at the residence of the British Consul in Hong Kong, attended by the Vice-Chancellor, Professor Sir Howard Newby, alumni and other distinguished guests.

Dr Kenneth Lam (PhD Musculoskeletal Biology 2012), a University donor, said: "Having received a scholarship myself to undertake a PhD during my career, I know only too well the importance of giving back and the difference that this support can make. I am pleased that my donation will give students a helping hand."

To find out more about the foundation, please contact Karen Brady, Director of Philanthropy & Alumni Relations, at: karen.brady@liverpool.ac.uk.



Scholarship recipients at the launch of the Hong Kong Foundation

Read Gary's guide to Hong Kong in full, and leave your own travel tips, on the alumni website at: www.liverpool.ac.uk/alumni/travel.



TACKLING WEIGHTY ISSUES WITH RESEARCH

With more than 50% of people in the EU classed as overweight or obese, University researchers are working together across a range of disciplines to explore how and why people are putting on weight and what can be done to curb this escalating public health issue.

The University has a long history of research into the biology of energy regulation, obesity and obesity-related illness. In March 2005, the Liverpool Obesity Research Network (LORN) was convened to promote existing inter-disciplinary research within the University and to stimulate new research activity in Liverpool and the North West.

LORN comprises a number of research groups, including the Human Ingestive Behaviour Laboratory, the Diabetes and Endocrinology Clinical Research Unit, the Obesity Biology Unit, Public Health Nutrition and Promotion, the Epithelial Signalling Research Group, as well as Europe's only clinical centre for weight control in pets.

Professor John Wilding, who leads the Diabetes and Endocrinology Clinical Research Unit, is the University's Head of Obesity and Endocrinology. He deals with the clinical fallout and health consequences of obesity - such as diabetes - on a daily basis.

"This is not a cosmetic problem but a serious medical issue", he explains. "I believe that the food industry has perhaps unwittingly helped create the problem we now have, which is

probably the biggest public health problem facing this country."

At the University's Institute of Ageing and Chronic Disease, John and his team are helping to explore potential solutions by investigating whether the diabetes drug liraglutide could help non-diabetics to lose weight.

The team conducted a trial with 4,000 participants from 27 countries where participants were divided into two groups and asked to follow a diet containing 500 calories less than the recommended daily amount and to



the study, two groups of people were put on a healthy diet but one group was also given prunes to eat. The group who added prunes lost more weight over a 12-week study than those in the non-prune eating group.

"These are the first data to demonstrate both weight loss and no negative side effects when consuming prunes as part of a weight management diet," said Jo. "Indeed, in the long term they may be beneficial to dieters by tackling hunger and satisfying appetite - a major challenge when you are trying to maintain weight loss."

"Obesity and diabetes already cost the UK more than £5 billion every year."

- Professor Simon Capewell

increase their physical activity. One of the groups was also given a 3mg daily dose of liraglutide each day before breakfast.

The group who took liraglutide each day lost an average of 19lb over 12 months, which equated to a weight loss of 8%, compared to 2.6% in those who did not take the drug.

The researchers found that the drug tricks the brain into feeling full. It also has other beneficial health effects, including lowering blood pressure, raising 'good cholesterol' and staving off diabetes.

Meanwhile Dr Jo Harrold, from the Institute of Psychology, Health and Society, is leading research into the beneficial effects of eating dried prunes to promote weight loss. During

Another solution may be to change what we eat and how often we eat it. Professor Jason Halford, Director of the University's Human Ingestive Behaviour Laboratory, is leading a £6 million European Union's Seventh Framework Programme (FP7) project, SATIN, to develop new foods that help people to feel full faster.

"We have been developing a range of prototype foods and beverages that aim to fill people up quicker and for longer which have been tested to assess their impact on key satiation and satiety triggers within the body," explains Jason.

"This innovative approach will help us to select the most promising prototypes to take forward into our clinical studies, through which we

hope to demonstrate the longer-term benefits of including such products in a healthy balanced diet."

But what is causing our waistline to expand in the first place? And what can we do to tackle the problem at the root? According to public health specialist Professor Simon Capewell, the main problem is our increasing consumption of sugar, which he describes as "the new tobacco".

Simon is part of a nationwide group called Action on Sugar, which is campaigning to reduce the amount of added sugar in food and soft drinks.

Along with his colleagues Dr Emma Boyland and Rosa Whalen from the Department of Psychological Sciences, Simon is recommending that adverts for unhealthy foods are pushed back until after the 9pm watershed - advice which has been included in the Labour Party's health policy proposals. He is

also calling for health warnings to be put on sugary drinks, and for the guidelines promoting five portions of fruit and vegetables a day to be doubled.

"The obesity epidemic is already generating a huge burden of disease and death," said Simon. "Obesity and diabetes already cost the UK more than £5 billion every year. Without regulation, these costs will exceed £50 billion by 2050. The public deserves effective action now." ●

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HERE.

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www.liverpool.ac.uk/giving.

Or contact one of the team at:
giving@liverpool.ac.uk
or +44 (0)151 794 6987.

Snapshot

Here are just a few of the events and reunions that the University has hosted over the last 12 months.



Graduation



Class of 1963 Physics at their reunion in 2013



Class of 1963 Physics



Behind-the-scenes tour of CERN, Geneva



Launch of the Hong Kong Foundation



Lucrezia Zaina lecture with Tim Parks



Particle Physics lecture & exhibition private view



Guests attending the Fred Freeman lecture on Philanthropy which featured Professor Sir David Cannadine, 2013

For the diary

2014

Thursday 27 November
Webinar: Is it time for a feminine movement?

Wednesday 10 December
Lecture with Sir Robin Saxby (BEng Electronics 1968, Hon DEng 2000) in Silicon Valley, California

2015

Thursday 20 January
Science & Society lecture

Saturday 30 May
Behind-the-scenes tour of CERN, Geneva

Tuesday 24 February
International Slavery Lecture with Professor Annette Gordon-Reid, Harvard Law School

May
Webinar: Making big data smaller

Friday 27 February
Chinese New Year event, London Campus

June
Webinar: Getting serious about business models

Thursday 5 March
London pub quiz

Alumni Up-Close Lecture Series

Monday 9 March
Science & Society lecture London

October
Alumni Up-Close Lecture Series

Thursday 19 March
Liverpool pub quiz

Thursday 8 October
Liverpool pub quiz

Thursday 2 April
Liverpool pub quiz

Monday 12 October
Science & Society lecture

Friday 17 April
Alumni golf day Royal Liverpool Golf Club, Hoylake, Wirral

Monday 9 November
Science & Society lecture London

Friday 15 May
Charity golf day Royal Liverpool Golf Club, Hoylake, Wirral

Thursday 12 November
London pub quiz

Tuesday 19 May
Science & Society lecture

Thursday 19 November
Liverpool pub quiz

Tuesday 8 December
Science & Society lecture

For full details of all of our upcoming events, visit our website at: www.liverpool.ac.uk/alumni/events



Here is a moment in time; a place where ideas grow and friendships form. Here is where great minds meet, where leaders stand and thinkers dream. Here is where discoveries are made, where theories evolve and cures are found. Here is the place that unites us all. Here is life changing and world shaping. **It all starts here.**

Every one of our supporters has the power to play a role in our future.

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