



St Edmund's College  
University of Cambridge



# The Edition

A Review of 2017



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*It is wonderful to see another generation of students embarking on an enjoyable and rewarding.*

## From the Master

See Matthew on YouTube: 'St Edmund's Cambridge'

As my predecessor, Paul Luzio, said "October is always manic, and it's always a surprise." This year's start is being true to form, with just over 600 new students flooding in to start their time in Cambridge. Again, we cover the globe, with 80 countries represented, and settling the new students in, making them feel at home and launching them on their courses has required "all hands to the pump", particularly by the Tutorial team and the CR committee. It is wonderful to see another generation of students embarking on an enjoyable and rewarding time at St Ed's.

The future of student life at Eddies is taking shape before our eyes. There is a cloudlike shape, massed behind the White Cottage. This new presence – far from being sinister – is the beginnings of Mount Pleasant Halls: the demolition of the old octagonal office block is underway beneath its plastic shroud, and during 2018 the new ground works will begin. It is so exciting to finally see that this major new project for the College has begun. It will be ready for new students to take up residence in September 2019.

The planning phase for Mount Pleasant Halls culminated in July, when the planners agreed that we could reconfigure the accommodation to include 75 studios, alongside 200 ensuite student rooms. As a graduate college, we have long wanted to offer membership to postdoctoral early career researchers. This planning change will now allow us to offer



them rooms, while at the same time increasing our on-site accommodation of students to around 80%, compared to just under half currently.

The other phase of planning that we completed in the summer was the full approval of our new East Court scheme. Here our building works will have to await the generosity of our alumni and other donors: the first phase will involve the demolition of the old family flats behind the Chapel in order to expand the existing CR and make room to build a brand new multi-purpose social space. Longer term, the plans provide for the substantial expansion of our dining facilities, as well as more room for the Von Hügel Institute and College offices.

### *The future of student life at Eddies, is taking shape before our eyes.*

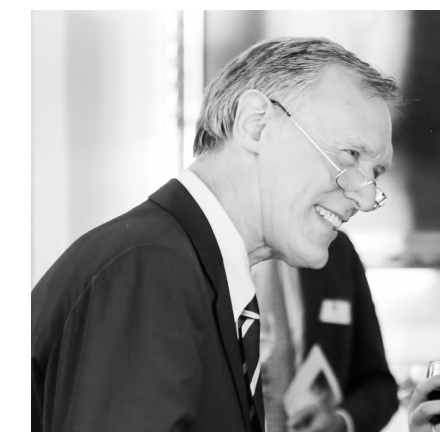
Instrumental in the planning of this exciting new phase in the College's history was Richard Anthony, our former Bursar. After seven years of putting the College on a good financial footing and preparing it well for the future, he was "called to Jesus", moving to become Bursar at that college. We are hugely grateful to Richard for all that he did for us. Richard's place has been taken by Edna Murphy, who comes to us from running the medical campus of University College London and, before that, working in Research Services Division in Cambridge. After eight years of commuting to London, work for her is now a bike ride from home, and she is enjoying it all.

Last year also saw us progressing nicely on the academic front: St Ed's students performed notably better in their exams, climbing six places in the result tables to sit comfortably amongst standard aged colleges. Congratulations to them, and well done to Tutorial team for all the support they gave.

Sporting-wise, the year was good with two men and two women in the Varsity rugby squads. We also continue to progress in the Lent and May Bumps, and both men's and women's boats are now comfortably in Division II.

Another area where good progress was made was in our work on helping students with their career choices. Not only did we hold careers dinners, skills training and entrepreneurial events, but one of our PhD's companies – Patrick Short's Heterogeneous – won both a College and University prize. He and two alumni even represented their company and our College at a national award, Pitch@Palace. We have appointed Gordon Chesterman as Careers Tutor to sustain this effort, and he works alongside another Fellow, Andy Harter, who is also Chairman of the Cambridge Network, leading our entrepreneurial theme.

The next facet of the College's character that we will be celebrating in 2018 is its internationalism. Having visited the US with our newly appointed Development Director and met alumni and friends in New York, Washington and San Francisco in Spring 2017, we shall be travelling through Asia in 2018, and in particular visiting several



cities in China, talking about Cambridge and St Edmund's position in it. This trip will also provide the opportunity to connect with our almost 200 alumni in China.

The Children's Christmas Party, the Carol Service, and the students' and fellows' pantomimes (we are still the only college in Cambridge to perform this double act!) all bolster our strong reputation as a warm and friendly place. We also have a special place in Cambridge over Christmas as the College where foreign students in other colleges, spending Christmas alone in the UK, can come for food and good company. For quite a while now our catering has been considered amongst the best in Cambridge, no matter what season.

### *Here our building works will have to await the generosity of our alumni and other donors.*

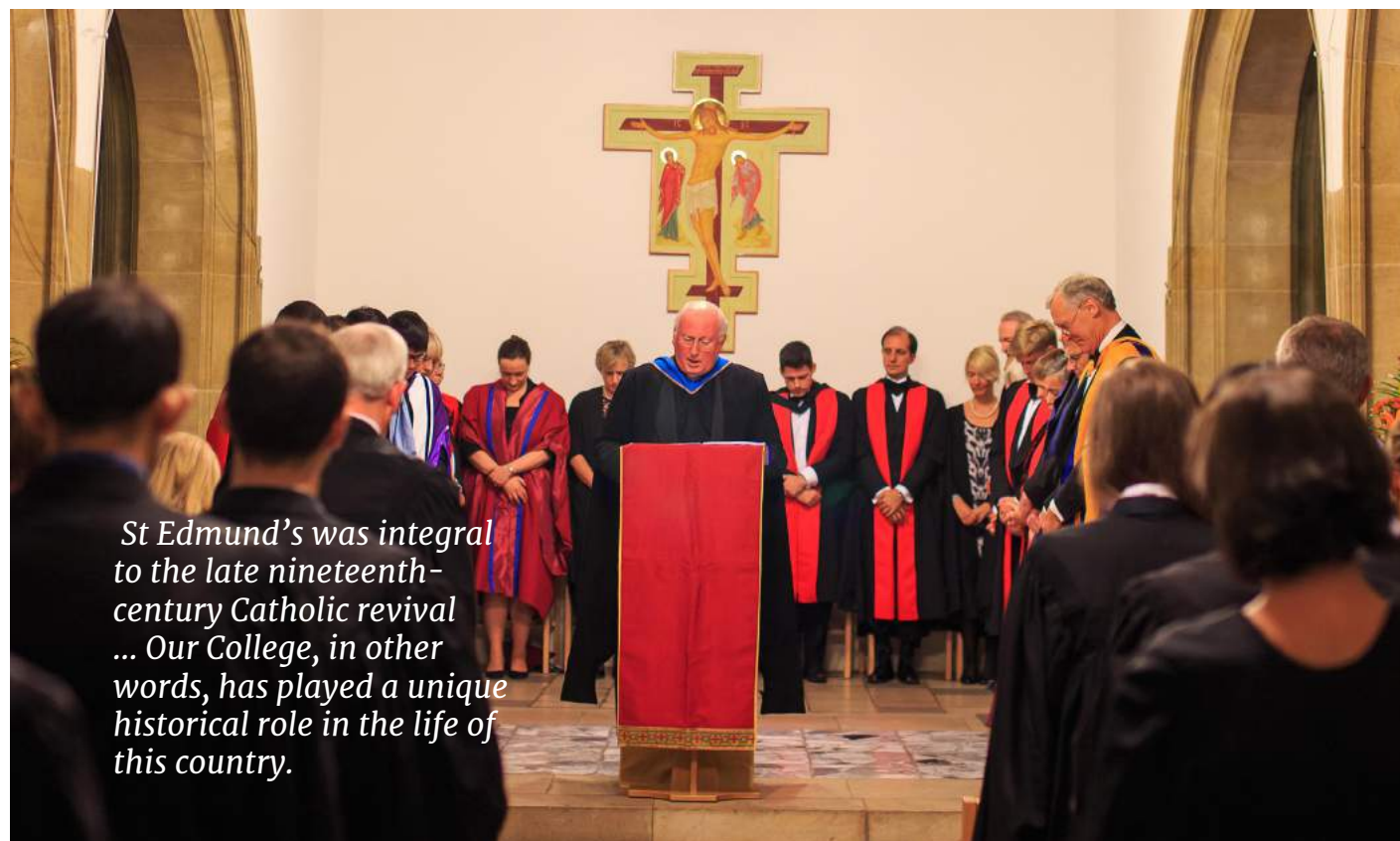
If you have not done so already, please do take up the opportunity to visit Eddies to see how, while there has been much change to the environment and surroundings of the College, it remains as warm, friendly and welcoming as ever.

Matthew Bullock



See Page 13 for details on the Cover Story





*St Edmund's was integral to the late nineteenth-century Catholic revival ... Our College, in other words, has played a unique historical role in the life of this country.*

## From the Dean

Is it mere coincidence or does it say something about the College's character and ethos? At the outer limits of the original College building, the Norfolk Building, are two institutions integral to the College's life. Each seats exactly 110 souls; each is routinely and regularly packed to capacity; each is concerned with keeping body and soul together, so to speak; one is by far the noisiest place in the College, the other the most tranquil; and every Edmundian enters the portals of each at least twice in their time as a resident member of the College. The main College building is framed by the Dining Hall and the Chapel, nourishing conviviality in one, sustaining spirituality in the other: surely not a meaningless coincidence.

The strenuous efforts to raise much-needed funds for expansion in the form of the East Court have been a powerful reminder of the College's

unique heritage and ethos. This too-well-guarded secret – the only fully-chartered Oxbridge college with a Catholic Chapel and, by statute, Catholic Dean – deserves to be more widely known, especially among Catholic philanthropists eager to find deserving causes. St Edmund's was integral to the late nineteenth-century Catholic revival, what John Henry Newman called its 'Second Spring', when after four hundred years of exclusion from public office and higher education, we finally returned and began again to contribute to the life of the nation in all its public institutions. Our College, in other words, has played a unique historical role in the life of this country.

Members of the College and the Chapel congregation continue to buy commemorative plaques for the new chairs (in effect, paying for the chairs themselves), dedicating them to deceased family members or as an offering of thanks. Recently, by the

generosity of Dr Simon Mitton, one of the College's three Life Fellows, plaques commemorating all the deceased former Masters of the College and our famous alumnus, Georges Lemaître, have been acquired. There are still some chairs without plaques.

A recent, very welcome addition to the Chapel is a fine, new crucifix in the sanctuary. It is a copy of the original at Sancti Angeli Benedictine Skete, in Cannich, Inverness-shire in Scotland, in the 11th century Byzantine style, showing majesty in suffering and incorruptibility in death.

The College Chapel continues to be popular venue with present members and alumni for weddings and baptisms, so don't hesitate to get in touch if you'd like to do the same. College catering in conjunction with a ceremony in the Chapel adds to the attractiveness of the arrangement.

**Fr Alban McCoy**

*The tea-trolley continues its usual battered self and I wonder if, as such an icon of the College, it deserves to be gold-plated!*



The Senior Tutor on excavation in Egypt

## From the Senior Tutor

The headline grabber of 2017 is that St Edmund's students achieved their best ever results, with 27 Firsts and our highest place ever in the Tompkins table. Having battled for rankings at the bottom of the table for several years, the 'mature' colleges have really entered the fray with the 'standard-aged' Colleges. Our mature students and those across the University can be proud.

Of course, your College being no ordinary college, means life is about more than exams. Our students engage in activities across the University and beyond. Our Luzio Scholars, PhDs in the Humanities funded through the Student Support Fund, came particularly to the fore. For instance, Maria Khan (2014) adapted 'Our Lady of Lahore' for the stage. Her play at the Corpus Playhouse received enthusiastic reviews and packed houses. Her side-long look at family, class and education was thought-provoking, and I am sure that many of us wish that we could see it again.

Another Luzio Scholar, Toby Salisbury (2013), organised the Third Student Conference, which received so many submissions that two sessions were convened; one arts and humanities and the other in STEM. Paul Luzio's keynote

lecture on a life in biological science showed how fast both the subject and the University are changing.

With 603 students, the community in College is the largest ever; but the welcome to new students from the existing CR ensured that it is no less warm. The bar and the Bops are as lively as ever, and the addition of games and puzzles to the evenings' entertainment fostered that cosy spirit of home that we relish at Eddies. The tea-trolley continues its usual battered self and I wonder if, as such an icon of the College, it deserves to be gold-plated! The freedom to invest in our community translates into tangible academic results. St Edmund's folk are their own greatest resource and it is this sense of belonging that we want to foster well into the future.

*that cosy spirit of home that we relish at Eddies.*

Eddies also flourished outside with the gardening society expanding the area under cultivation and re-purposing abandoned bricks to pave the paths and some lumber to create a bench. At the same time, a broken-down porters' trolley became a well-plucked herb garden and the vegetable produce


was so abundant that the Facebook group was advertising not for diggers but eaters. It has been wonderful to see how a little patch of earth has grown into a refuge for the students (and the Senior Tutor). Sports, informal and competitive, continue to use the grounds, and our year on the river was successful and very busy.

Music crescendoed through the year, with our music scholar's concerts and 'Ed and the Eddies' at the May Ball. The alumni were even treated to a new opera composed by Michael Bascom (Music, 2016). This year's student Panto will be a musical, with script-writers, composers and choreographers to the ready. The origins of the Panto are lost in the mists of time, but we have eyewitness accounts from Jane Luzio of a ballet of black-clad priests dancing Swan Lake with her as far back as 1967!

**Dr Judith Bunbury**

 [See Judith on YouTube: 'St Edmund's Cambridge'](#)





*The first phase of the development concentrates on expanding the College's central student, research and teaching facilities, based around the Norfolk Building.*

*In support of this, the College has undertaken further fundraising through the Master's Development Fund, but greater efforts are necessary to get the project off the ground.*

Find out how you can help  
[www.st-edmunds.cam.ac.uk/funding-buildings](http://www.st-edmunds.cam.ac.uk/funding-buildings)

## From the Bursar

In 2014-15, a major opportunity arose with the potential redevelopment of Mount Pleasant House, a 1.5-acre property adjacent to the northern boundary of the College. During 2016-17 we signed an agreement which includes the commitment, when the building is complete, of entering into a long lease of the site, with the option to acquire the freehold after 47 years for £1. This scheme allows for the creation of new student rooms and studios for academics. Given the scarcity and high cost of land in Cambridge, this offers the College an unprecedented opportunity to extend its main site and secure affordable housing.

In June 2017, we succeeded in achieving planning permission for East Court, the first phase of our new strategic plan. Our aim is to expand shared facilities for students, Fellows and staff over the next decades. This is in response to both the historic increase in student numbers, as well as the expectation that the growth will continue gradually and moderately for the foreseeable future, in line with the University's long-term plans. The first phase of the development concentrates on expanding the College's central student, research and teaching facilities, based around the Norfolk Building, as well as replacing its ageing family accommodation. In support of this, the College has undertaken further

fundraising through the Master's Development Fund, but greater efforts are necessary to get the project off the ground.

During 2016-17, we have made further improvements in financial management, together with better operational management, enabling us to be in a position to maintain and invest in our existing infrastructure and, as a result, we are focused on improving facilities for students, Fellows and staff. We have also increased the level of support provided to students and have seen a resulting improvement in academic results.

*The current year saw a further strengthening of the College's balance sheet and substantial improvements to its prospects for the long-term growth in its endowment.*

The College funds its activities from academic fees, charges for student residences and catering, income from its conferencing and external functions business, income from investments and donations. The full impact of increases in research income and academic fees has been reduced by falls in other areas, such as income from rent, catering and conferences. Expenditure increased, largely due to an increase

in the cost of education, especially for research grants, scholarships and bursaries. Here too, St Edmund's is increasing its fundraising efforts through the Student Support Fund.

The current year saw a further strengthening of the College's balance sheet and substantial improvements to its prospects for the long-term growth in its endowment. However, increased operational expenditure delivered greater support to students and this meant that the College reported a small deficit, compared to a small surplus in the previous financial year.

St Edmund's remains supportive of the University's strategy to steadily increase the numbers of graduates. The main challenge facing us is continued growth in the face of limited capital resources. We have to focus on other potential sources of funding, including donations from our alumni. This approach is being implemented in partnership with other Colleges and the University through its Collegiate Cambridge fundraising campaign. With the support of the University, we have been successful in recruiting our first full-time Development Director, Mrs Kate Glennie; which will substantially increase our ability to equip the College for the future.

**Mrs Edna Murphy**



## From the Development Office



Last year's AGM Randeree Scholar, Easa, is as busy as ever after completing his MPhil in Development Studies with distinction. He is now working for the UK Treasury and is applying to become a volunteer advocate.

### New Scholarship for Social Innovation Awarded

Jointly funded by St Edmund's and the Cambridge Judge Business School, a new scholarship in Social Innovation has been awarded to Eidi Cruz-Valdivieso. She was attracted by the course's relevance and its bringing together of many experienced academics and practitioners who can co-create and strengthen pathways in order to bring innovative solutions to some of the most pressing global challenges.

*Eidi worked for many years amongst some of the poorest communities*

Eidi was born in Mexico and worked for many years amongst some of the poorest communities, offering poverty relief, community initiatives and fostering creativity. Eidi studied Psychology at Iberoamericana University, and later obtained an MSc with distinction in Organisational and Social Psychology from the LSE, where she subsequently worked on

intellectual capital and co-creation in the SME sector. Whilst in London Eidi also studied acting.

For the last four years Eidi directed the Gifted Citizen programme, which aims to support some of the best social entrepreneurs from around the world, and whose projects impact ten million people in the areas of health, education, scientific and technological innovation, poverty reduction, environmental sustainability and culture. During 2016, she also managed this programme's collaboration with HRH The Duke of York's Pitch@Palace initiative. She is now developing Gifted Citizen's international strategic partnerships and is creating, through an NGO, a social innovation and art programme amongst poor communities in Mexico.

Eidi is "very much looking forward to becoming an active part of the community of St Edmund's and... joining the growing number of students from the MSt in Social Innovation who wish to study at the College."

*I hoped to further my own education in order to contribute positively within the British Muslim community.*

### New AGM Randeree Scholar

Thanks to the generosity of the Randeree family and the DCD Family Trust, the second AGM Randeree scholarship has been awarded to Miss Qurra Tulain.

Qurra is studying for an MPhil in Modern South Asian Studies at St Edmund's College. This prestigious scholarship, aims to develop British Muslim community leaders and public intellectuals who are able to represent their communities, to create mutual understanding and contribute towards the creation of a cohesive society.

Qurra writes, "Meeting leaders from all fields including politicians, academics, grassroots activists and trained community organisation workers, I recognised that the lack of young British Muslims pursuing academic and religious education was one of the primary reasons for the underdevelopment of our communities. I hoped to further my own education



in order to contribute positively within the British Muslim community. I felt the need to understand the global context in order to understand our local context was vital, as well as encouraging and inspiring other young individuals to do the same."

She recently completed a BA in History at the School of Oriental and African Studies in London, where she was involved with various societies, charitable organisations and community cohesion programmes.

Qurra is grateful for this "life-changing opportunity to study South Asian studies" and hopes, "it will give me the credibility, knowledge and skills to become a bridge-builder and effective community leader". In the future, she aims to tackle educational underachievement, youth related issues and women's issues that have impacted the South Asian diaspora..



*"great leadership potential, a commitment to improving the lives of others and an unparalleled passion for learning"*

### Gates Scholarship

Dennis Mukuba has been awarded a Gates Scholarship to study an MPhil in Architecture and Urban Studies. Gates is the most prestigious international postgraduate scholarship at the University.

Dennis is a 29 year old Kenyan designer and architect and alumnus of the University of Nairobi, who is "passionate about great design," believing it can contribute to "healthier, conscious developing cities that have greater mobility and productivity. Through the Gates – Cambridge scholarship and within the Department of Architecture, I hope to exemplify these emerging urban areas in perspective of other successful satellite cities globally, measured against appropriate planning policy and sustainable domestic economic models."

The Gates Scholarship aims to identify and select academically exceptional and socially committed applicants who are likely to be transformative leaders across all fields. Competition for the Scholarships is fierce. The 90 new Scholars were selected from a total pool of around 6,000 applicants on the basis of their intellectual

ability, commitment to improving the lives of others, leadership potential and academic fit with Cambridge. Departments in Cambridge nominated 424 candidates for the Scholarships and, of these, 202 were interviewed in the US and Cambridge by four panels of interviewers drawn from across the University.

"Gates Cambridge Scholars come from all over the world, but they have some important things in common: great leadership potential, a commitment to improving the lives of others and an unparalleled passion for learning," said Bill Gates. "We have no doubt they will have an incredible impact on topics of global importance."

Outgoing Vice-Chancellor, Professor Sir Leszek Borysiewicz, recognised the transformative nature of Gates Cambridge by adding: "Cambridge is a global university and the Gates Cambridge programme epitomises both its international, outward-looking nature and its mission to tackle global challenges and to improve the lives of others. The selection of another intake of outstanding young Scholars shows philanthropy and education at their most transformative."

Support a student  
[www.st-edmunds.cam.ac.uk/supporting-st-edmunds](http://www.st-edmunds.cam.ac.uk/supporting-st-edmunds)

# From the Development Office

## From the Development Director



It has been a delight to join the St Edmund's Development Office team, and Fellowship at such an exciting and transformational point in the College's history.

The challenges of joining a younger, smaller and more geographically far-flung College are, in fact, tremendous opportunities for getting fully immersed in College life, getting to know our diverse community of alumni, friends and supporters (both here in the UK and on my trip with the Master to the USA in the Spring) and having the chance to make a real impact through fully establishing and embedding a culture of philanthropy at Eddies.

Make a donation online  
[www.st-edmunds.cam.ac.uk/donating](http://www.st-edmunds.cam.ac.uk/donating)

## Eddies in the US



The Master and Development Director undertook their inaugural international trip together in the Spring of 2017, visiting alumni, supporters and friends in three cities across America.

In New York, the Master gave a presentation on the growth of the Cambridge Economy to an audience of alumni from across Collegiate Cambridge, hosted very kindly by Cambridge in America at their offices in Midtown Manhattan. Later on, a group of Eddies alumni gathered for dinner at a nearby restaurant and swapped stories of rowing, College food and tales from the College bar!

Having moved on to Washington DC, the Master spoke to another Cambridge-wide audience, this time at the World Bank. He and the Development Director were also treated to a behind-the-scenes tour of Congress by an alumnus working for a Congressional Committee. After which, they hosted a drinks reception for incoming students of the Judge Business School, who were keen to know more about the Cambridge experience.

The final stop on the trip was San Francisco, where many of our alumni are engaged in the technology and

While seeking philanthropic contributions to support our students through the creation of bursaries, scholarships, prizes, and funding, our world-class teaching and research staff remain a constant. In addition we now have the heightened priority of our two new building projects – Mount Pleasant Halls and East Court, the latter of the which forms the bulk of our long terms estate development masterplan. I look forward to working with alumni, parents, friends and other supporters to raise the funds for this project, which will improve the environment and experience of every future generation of students.

Kate Glennie



biotechnology industries or are continuing the Eddies spirit by pursuing their own start-up ideas. One such alumnus, an investor in new food and drink ventures, very kindly hosted a gathering of Eddies folk in a bar in the financial district where cocktails and good times were had by all.

Next year's overseas trip will take in Asia, but there are plans to return to the US again in 2019.

# From the Tutorial Office



## Fourth Luzio PhD Scholar: Thomas Crew

Every day St Ed's is improving the world around us by creating inspiring leaders, pioneering researchers and encouraging intellectual exchange. Awarded annually, the Luzio Scholarship enables a hugely talented person to embark on a PhD in the Humanities at our College. This year we have welcomed our fourth Luzio Scholar, Thomas Crew, writing a doctoral thesis on the subject of German language.

Adorno's concept of the culture industry provides the guiding theme to his research, which, in addition to his own texts, he aims to explore using the philosophy of Martin Heidegger and expressionist literature. "I am particularly interested in the concepts of reification and conformity," Thomas explains, "as well as attempts to articulate their opposites, and also the interplay between literature and philosophy."

"My studies have taken me to various colleges of the University of London and repeatedly back to Berlin, as I follow everything, in literature and philosophy, that promises illumination. I am now very grateful for the funding St Edmund's is offering me and to be studying full-time in Cambridge."

Funding for Arts & Humanities has been cut significantly in the past years. You can make a real impact on the lives of people today by donating towards this scholarship honouring former Master, Paul Luzio, and his wife, Jane.

## Academic Success

College Prizes	Engineering, Part IIA
Bagdades, Kyriacos	MASt Mathematical Statistics
Barreau, Baptiste	MASt Mathematical Statistics
Bernou, Armand	Mathematical, Part II
Chan, Jun Neng Ryan	Management Studies
Chan, Kaisheng	Natural Sciences, Part II: Plant Sciences
Chiu, Chai Hao	Law, Part II
Farah, Rakiya	Natural Sciences, Part IB
Feng, Haosheng	Engineering, Part IA
Gan, Howard	Mathematical, Part IB
Gao, Shenghan	Natural Sciences, Part IB
Gong, Chen	Human, Social & Political Sciences, Part I
Halliday, Ben	MASt Pure Mathematics
Le Gall, Quentin Thibaud	Economics Tripos, Part IIA
Lee, Wen Ryan	Psychological & Behavioural Sciences, Part IIA
Lee, Xue Qian Timothy	Management Studies
Lin, Kwun Tong	LL.M.
Magini, Ana Leticia Blasi	Human, Social & Political Sciences, Part I
Mak, Ian Wei	LL.M.
McKeon, Ailsa Kate	MASt Applied Mathematics
Möller, Moritz	Land Economy, Part IA
Ng, Aloysius Siew Theng	Land Economy, Part IA
Ng, Yong Yi Titus	Final Veterinary Exam, Part II
Plumtree, Charlotte	Medical & Veterinary Sciences, Part IA
Siripanthong, Bhurint	Engineering, Part IB
Soo, Wah Ming Wayne	Natural Sciences, Part IA
Tan, Jing Chong	Natural Sciences, Part IA
Tian, Junfu	LL.M.
Vasilou, Maria	Engineering, Part IA
Venkidachalam, Ashwin	Law, Part II
Wildner, Andreas	LL.M. Examination
Zhou, Yan-Kai	Engineering, Part IIB
Zou, Peisu	

Named College Prizes & Awards	
Chatterjee Prize	Florea, Martin
Georges Lemaître Prize	Ang, Michael
Cherry Hume Prize	Shahzad, Sara
Chau Prize	Wang, Guangruizi
Fr Nicholas Smith	Bergmans, Bas
Claydon (PhD)	Hassan, Adan
Claydon	Taehee, Oh
Coventry	Guy, Nathan
Emsley (science)	Thillaiappan, Nagendra
Emsley (historical)	Hussain, Adeel
Jackman	Hirblinger, Andreas
Alumni Society Award	Eckersley-Jones, Lily
Dean's Award	Gouveia, Tomé Magalhães
Dean's Award	Le Gall, Quentin Thibaud
Martlet Award	Reilly, Marita
Martlet Award	Warnasuriya, Mihiri Saritha

Blues	
Kristjana Caka	Lacrosse
Martin Florea	Lawn Tennis
Katarina Sanchez-Schilling	Rugby
Laura Suggitt	Rugby
Brian Du Toit	Rugby
Andrew Hunter	Rugby
John Mulvey	Cycling





*promising bigger and better things in the College's future*

## From the CR

Eddies has been, and always will be, home to Cambridge's most welcoming and most vibrant student community. Talk to any Old Edmundian about their experience at the College and I promise you these terms will crop up again and again: friendliness, diversity, openness, the tea trolley, the bar... And, if you're reading this, you'll know that these aren't just stock phrases to be peddled out for glossy prospectuses. The constancy of our College's expansion is matched only by its ability to hold on to what makes it so special year after year – a feat made all the more remarkable by the comparatively high number of students at Eddies whose courses last for only one year.

2017 was a vintage year for Eddies. Our undergraduate cohort obtained 27 Firsts between them, elevating the college to its highest ever rank in the Tompkins Table in the process; new clubs and societies were formed, including the Book Club and the Theatre Society; the College rugby team won its league with a string of resounding performances, and

were only denied a second piece of silverware thanks to some questionable refereeing in the Cuppers Plate final, something which greatly annoys the captain to this day; and, perhaps most exciting of all, ground was broken on the new Mount Pleasant site – promising bigger and better things in the College's future.

*The constancy of our College's expansion is matched only by its ability to hold on to what makes it so special*

As the CR's Academic Officer it was my privilege to organize the annual student conference, which took place in February. Within minutes of my sending out the call for papers I had received a flurry of enthusiastic responses and queries. One student even managed to send me their abstract from the largely internet-less confines of their fieldwork in rural northern China. Few occasions could better showcase the vast range of important research that is undertaken at Eddies, or the great diversity of

experiences, interests, and expertise that reside here. Simultaneous sessions consisting of panels of current Eddies students gave us talks on everything from indigenous Hawaiian navigation techniques to Game Theory, from exilic literature to Chinese cuisine in contemporary Paris. Students and Fellows alike engaged in friendly debate over the contents of the 20 papers that were delivered on the day. The event was crowned by a keynote speech in the Okinaga Room by Professor Paul Luzio, our former Master. If ever you want to relive the richness of the St Edmund's experience, then I urge you to attend next year's conference.

All-in-all your College is in good health and you are always welcome back to see for yourself. Despite the physical changes that the place may have undergone since you left, rest assured that the Eddies spirit remains.

**Toby Salisbury, CR Academic Officer**

## Student News



### Royal Society of Biology's Top Student Award

Chai Hao Chui (Natural Sciences, 2014) has been awarded the Royal Society of Biology's prestigious Top Student Award.

Fascinated by how plants interact with their environment, especially the symbiosis between plants and beneficial arbuscular mycorrhizal (AM) fungi, Chai Hao worked at Uta Paszkowski's Lab for his final year (Part II) research project. Evolved when plants first moved onto land, AM symbiosis is crucial to global carbon and nutrient cycles. The perception of AM fungi often enhances root growth, increasing the interface for symbiotic nutrient exchange. He identified the first receptor kinase required for this response in rice.

Chai Hao graduated with a double first from his undergraduate degree, where he specialised in Plant Sciences. He was awarded the University's Frank Smart Prize in Botany in 2016 and the T B Wood Prize in Plant Sciences in 2017 for his exceptional academic performance.

Now embarking upon a PhD in Plant Sciences at Fitzwilliam College as a Gates Scholar, he has very fond memories of St Edmund's – especially the reliable tea trolleys; as well as the pretty apple, plum and daffodil blossoms in spring.



Patrick Short & Daniel Kornum won the first Eddies Entrepreneurs Competition

### Cover Story: Science Students with the Entrepreneurial Edge

Patrick Short, currently doing a PhD at St Edmund's, together with Eddies alumni Charlotte Guzzo (Natural Sciences, 2014) and Will Jones (Advanced Computer Science, 2014) have founded Heterogeneous, a start-up aimed at bringing people closer to the research process in genetics and medicine, while providing scientists with access to much richer and more dynamic data.


Millions of genomes have now been sequenced worldwide, but most of this data is frozen in time and one-dimensional. The heterogeneous platform is being built to connect individuals to institutions, and provides access to rich datasets at a fraction of the cost, while empowering individuals to decide how to share their data.

'We applied to participate in Pitch@Palace a few months ago and were selected to contribute to the "bootcamp" and the event itself,' Patrick reports. Pitch@Palace, under the patronage of the Duke of York, guides, helps and connects

Entrepreneurs and early-stage businesses with potential supporters, including CEOs, influencers, angels, mentors and business partners. It was a fantastic chance for Charlotte, Patrick and Will to present their work to a large and influential audience.

*It was a fantastic chance for Charlotte, Patrick and Will to present their work to a large and influential audience.*

Patrick also won the inaugural St Edmund's Entrepreneurs competition in April, for which he received a valuable place on the Judge Business School's Accelerate Cambridge Programme. He has gone on to win a top £5,000 prize from CUE, the Cambridge University Entrepreneurs society.

 See our students on YouTube: 'St Edmund's Cambridge'



# Sports



## Rugby Varsity Matches 2016

The victorious men's rugby team won 23-18 against Oxford in the Varsity Match at Twickenham. It was Cambridge's first win for 7 years. St Edmund's was represented by Brian Du Toit (MPhil in Technology Policy) and Andrew Hunter (Land Economy Tripos), who were both playing their first Varsity Match.

Brian du Toit (pictured) was selected as man of the match and told BBC Sport: "It's absolutely huge, we put such an emphasis on not worrying about the previous six games, we knew we had

such a tight-knit group of boys, we just wanted to do it for each other and people who had worn the jersey previously. We were all willing to get up off the ground when we had nothing left in the tank - you wanted to do it for your brothers, your team-mates, your family."

Laura Suggitt (MPhil in Criminology) and Katerina Sanchez-Schilling (MPhil in Management) represented St Edmund's in the women's match, which unfortunately Cambridge lost 3-0.

Explore the website to find out more about student life  
[st-edmunds.cam.ac.uk/college-life](http://st-edmunds.cam.ac.uk/college-life)



## From the Senior Captain SECBC

Michaelmas began with a determined recruitment drive spearheaded by former SECBC President Megan Eldred and Men's Captain-elect Patrick Short, with record numbers of Freshers eager to try the most Cambridge of sports. The BC Committee was later constituted with returning senior Michael Stanton as President and novice Ailsa McKeon as Women's Captain (subsequently replaced by novice cox Shaaroni Wong after The Lents). Chara Makri (kit officer), Hermon Bahru (water safety officer) and Dario Ferrazzi (treasurer) were also duly elected.

With few returning seniors, our challenge, as always, was to train some 30 or so novices, many who had never been in a boat before, to race standard in just 3 months. The early morning ergs and cold winter outings paid off, and by the Lent Term we had 2 men's and 1 women's crew steadfastly in training for the forthcoming Bumps.

### The Lents

A most disappointing start for M2, being overbumped by Churchill III (Jesus IV and Caius III) and down three places on day one. Subsequent bumps on the following days by Kings III, Caius IV (technical, river carnage) and Girton II and a total loss of six places sees us perilously close to the bottom of the River, with only ARU II and Corpus II below.

M1 had a much better first outing, easily bumping Sidney in the first race. A rather unlucky rowover for the second race as the crews ahead bumped out too quickly for us to catch

them. The overbump was never really a viable prospect, but triumphs for the rest of the week followed, bumping Queens' II and Darwin. A net gain of three places finishing 13th/18 in Division 2 and narrowly missing Blades.

*"... there is nothing - absolutely nothing - half so much worth doing as simply messing about in boats."*

Kenneth Grahame  
 The Wind in the Willows.

Beset by illness and injury, W1 were bumped by Wolfson on day one and demoted to Division 3 and the daunting position of 'sandwich boat'. Our fortunes worsened on day two and we were forced to 'scratch,' giving Clare II a technical bump. Subsequent bumps by Lucy/Hughes and Queens' II, gave us a net loss of four places and 'spoons' for W1. Our combined Marconi Cup score was a disappointing 28th place finish for the week, with much work to do.

The Annual SECBC 2020 Gala Dinner at The Oriental Club  
 However, the SECBC is not all about rowing! On the eve of the annual Tideway races we welcomed rowing alumni and former Blues to our 2020 Dinner in London. Held in the sumptuous setting of The Oriental Club, our guest speaker for the evening, former Club and CUBC President Dan O'Shaughnessy, regaled us with rowing anecdotes as the fine wines flowed late into the night.

### The Mays

M2 were quickly caught by ARU on day one, followed by an rowover on day two, before being bumped by Pembroke III in the next race. Another long rowover on the final day and down a net two places, to 13th in Division 4. M1 started the campaign with two consecutive rowovers, but subsequent bumps of Trinity Hall I and Hughes Hall I ended the week with a net gain of two places, finishing 6th in Division M2. The women's crew were transformed from the Lents boat, taking notable bumps of Emma III, Christ's II and Murray Edwards II. Only a third day rowover robbed the crew of much deserved Blades - a great triumph nonetheless!

A combined points tally of 12 saw us finish a most impressive joint 7th overall in the challenge for the Pegasus Cup and our College rowing ends on a high note.

'This year on the Cam has seen a rich mix of challenges, fortunes, disasters and triumphs. I am continually impressed by the commitment and determination of all of our oarsfolk to uphold our illustrious rowing tradition on and off the water. My sincere thanks to all of our Members, Alumni, and friends for their ongoing help and support.'

Lily Bacon, Fellow Commoner



## New Fellows

**Ms Edna Murphy** read Philosophy and then Law at Cambridge, as a member of Murray Edwards (then New Hall). She then undertook postgraduate law studies in New York University School of Law. Returning to the UK, she initially worked in the voluntary sector then in commercial roles in the Science Park in a variety of interesting projects, including spin outs and a management buy-out. Mid-career she returned to studies once more, taking an MBA from the Open University (at the same time as running a business, being a Cambridge Magistrate and having two children.) A major change of career came in 2005 when she moved to higher education administration, and pursued senior roles in the University of Cambridge (running Research Services Division, as it then was), Imperial College London (setting up the Joint Research Office with the NHS Trust) and UCL (running the Faculty of Medical Sciences). Latterly she has been a Non-Executive Director of a mental health trust in London and a governor of Hills Road Sixth Form College. She is a keen amateur musician playing the violin and (recently) the viola, and has set up Cambridge Youth Music, a charity to encourage composing and performance opportunities for children in Cambridgeshire.

**Dr Sanjiv Sambandan** is a Lecturer at the Department of Engineering in the University of Cambridge. He is also cross-appointed as an Associate Professor at the Indian Institute of Science. Sanjiv obtained his BTech in Electrical Engineering (Energy Systems) from the Indian Institute of Technology, Kharagpur and his PhD in Electrical and Computer Engineering from the University of Waterloo. Subsequent to his PhD he worked at the Xerox Palo Alto Research Centre, USA. Sanjiv is also the founder and director of openwater, a waste water management startup and a spinoff from his lab.

**Dr Kristen MacAskill** is a civil engineer by training and has worked in industry as a consulting engineer in the water and transport sectors. She returned to academia to complete a PhD in disaster recovery, following experience working on post-earthquake reconstruction of her home town in Christchurch, New Zealand. She now runs the Construction Engineering Master of Studies in the Department of Engineering and continues to work on projects associated with disaster risk management and resilience.

**Mrs Kate Glennie** was appointed as Development Director in January 2017, and oversees Alumni Relations and Fundraising at St Edmund's. Kate studied History as an undergraduate and postgraduate at University College London before joining the Development Office at the London School of Economics in 2003. She spent six years fundraising for Birkbeck College and prior to her appointment at St Edmund's, Kate spent three years as at Trinity College, managing their Major Gifts team.

**Dr Sudhakaran Prabakaran** did his Ph.D. in schizophrenia from the University of Cambridge as a member of Fitzwilliam College. For his postdoctoral training, he worked on systems biology at Harvard Medical School, Boston. Thereafter he worked as an editor at Science Signaling in Washington DC for a year. He also co-founded a company in Cambridge, MA. After almost 12 years in the United States he returned to the University of Cambridge as a Lecturer in the Department of Genetics through a partnership between the University of Cambridge and the Indian Government. His lab is interested in understanding mutations in the non-coding regions of the genome.



**Dr Louise Boyle** graduated from the University of Edinburgh in Biological sciences. She moved to Cambridge in 1998, to undertake her doctoral studies with Professor Hill Gaston studying T cell responses in patients with arthritis. Having developed a keen interest in the biology of major histocompatibility complex (MHC) molecules, she undertook her post-doctoral training with Professor John Trowsdale. In 2009, Louise was awarded a Wellcome Trust Career Development Fellowship, followed by a Wellcome Trust Senior Research Fellowship to explore the molecular pathways controlling antigen presentation to the immune system.

**Mr Nick Mansley** is Executive Director of the Real Estate Research Centre in the Department of Land Economy. He lectures and researches on issues related to real estate investment, finance and the economy and is co-Course Director of the part-time Masters in Real Estate programme. Nick is also Chair of the Lord Chancellor's Strategic Investment Board, External Assurance Advisor to the Official Solicitor and Public Trustee, sits on the investment committee of a fund investing in UK retail property and on the UK board of the Urban Land Institute. He is also a trustee of a charity supporting those with learning disabilities in Cambridgeshire. Nick started his career in Cambridge working on strategy and economic policy issues before moving into the investment management industry where he led Aviva Investors' global multi-manager services across all asset classes and led the strategy and investment process in the real estate business in a Chief Investment Officer role. Nick studied economics at Cambridge, investment at the London Business School and management at CEDEP (INSEAD). He is an enthusiastic triathlete, competing in the European and World Age Group Championships for his age group.

**Dr Remco Heesen** is a Research Fellow in the Faculty of Philosophy. He earned his PhD from Carnegie Mellon University in 2016 and now works on the social epistemology of science, which involves studying things like peer review, the replicability crisis and the way scientists reward each other for their achievements. The idea is to make science work better, by thinking about the incentives faced by individual scientists and the ways these can be changed through policy-making for the benefit of the scientific community as a whole. His recent work focuses on biases in peer review that occur even when no individual actor in the reviewing process is biased.

**Dr Jonathan Mar** is a Research Scientist at the Hitachi Cambridge Laboratory, an embedded research laboratory in the Department of Physics at Cambridge University. He obtained his Ph.D. in physics at St. John's College, Cambridge, following a bachelor's degree in applied science from the University of Toronto. His research interests are in the areas of solid-state quantum optics and nano-photonics for applications in quantum information processing. He was drawn to St. Edmund's College by Catholic tradition.



## New Fellows



**Dr Sami Everett** joined CRASSH as Research Associate for the Religious Diversity and University Responses project. His interdisciplinary research juxtaposes the role of encounter and exchange in religiously diverse urban everyday settings and in contemporary intellectual production. He writes against a discursive backdrop of increasing concern over identity and pluralism - a core concern of the project. His thesis (2009-2014), successfully completed at SOAS, developed the notion of Maghrebinité that brings together historical-racial - Maghreb - and spatial-political - Cité - dimensions of Parisian Jewish identification to North Africa. He undertook multi-sited ethnographic and historical research in Paris, North Africa and Jerusalem to analyse migratory trajectories and their interpretation intergenerationally. His work also focuses on similarities and differences in experience between Jewish and Muslim descendants of North Africa in greater Paris, particularly in areas of contact. In Paris he is associated with INALCO (from which he graduated) and the CNRS GSRL (Society, Religion and Secularism Group). As a JRF at the Woolf Institute (2015-17), Sami analysed the ways in which trust manifests itself locally through his participant observation in initiatives relating to social action, interfaith, and refugees, putting into practice a philosophy of personal engagement through education, outreach, and research.

**Professor Charles French** (BA (Vales), MA & PhD (London)) is Professor of Geoarchaeology and Director of the McBurney Laboratory in the Department of Archaeology. Over more than 45 years of archaeological experience, he has worked in many parts of the world and is currently involved in projects in the East Anglian fenslands such as Must Farm, the chalk downlands of Wessex at Avebury, central

Bosnia, Malta, Sardinia, northern India, Kenya, Ethiopia, Tanzania and southern Peru. Prior to 1992, when he became a lecturer at Cambridge, he was the palaeo-environmentalist and assistant director of the Fenland Archaeological Trust. His research focuses on the analysis and interpretation of buried landscapes, using geo-morphological and micro-morphological techniques to establish sequences of landscape change associated with human interactions, particularly deforestation, agriculture, soil erosion and desertification. Charles was awarded the University's Pilkington Teaching Prize in June 2009 and has supervised more than 30 PhD students, many of whom have academic/research positions around the world.

**Ms Catherine Dobson** read Law at Jesus College, Cambridge, where she was an Exhibitioner and Scholar. During her degree, Catherine spent a year studying at the University of Poitiers, France, obtaining a Diploma in French law. She subsequently read for the BCL at Lincoln College, Oxford. Catherine is a qualified barrister and practises at 39 Essex Street Chambers in London. Before becoming a barrister, she worked at the International Criminal Court. She is currently taking a sabbatical from practice to clerk for Lord Clarke at the UK Supreme Court. Catherine supervises our students in Constitutional Law

## From the Faraday Institute



2016 was the 10th anniversary of The Faraday Institute, in which we have continued our success and planned for the future. We welcomed Julia Greenham as our new Events Manager and Dr Andrew Jackson as Director of External Affairs. After working at The Faraday Institute for over 3 years on the "Sea and Scripture" project Dr Rebecca Watson has moved to become Dean of Studies at The Mirfield Centre, but we are delighted that she will continue to be affiliated with us at St Edmund's College.

The Faraday Institute has grown over the last ten years and our current grant The Science of Human Flourishing shows the diversity of our interdisciplinary research in science and religion. This grant encompasses the relationship between ancient scriptures and scientific knowledge; character formation in adverse circumstances; human mystical experiences and epilepsy; human identity in relation to robotics and AI technology; the structure of the physical world; and the wonders of the living world. Other research projects include the Sea in Scripture; the impact of 'New Atheism' on public perceptions of science and religion; and the implications of human genome modification for human dignity.

We have hosted two successful public lectures this year, Professor Jeff Hardin from the University of Wisconsin-Madison on "How We Are Made: Embryos, Biology and Belief" and Professor Elaine Ecklund from Rice

University, Texas, on "Do Scientists Believe in God?— Results from an eight nation Study".

Attendance at our lunch-time research seminars has continued to grow. These are fortnightly during term and are held in the Garden Room in College. We ended the summer term with a joint seminar with the Divinity Faculty given by Professor Alan Torrance (St Andrew's).

Our website and social-media interactions continue to be widely used. Faraday Research Associate Dr Amy Unsworth spent three months as a Visiting Scholar at Rice University in Houston, where she worked with sociologist Dr Elaine Ecklund on a comparative study of churches in the US and the UK. Dr Hilary Marlow was involved in an interfaith dialogue in Spain after the publication of *Laudato Si*. This resulted in the Torreciudad Interfaith Declaration on Science and Faith Cooperation for Environmental Care: [www.declarationtorreciudad.org](http://www.declarationtorreciudad.org)

We have held several short courses and workshops this year and the Summer Course in July was again our flagship event. This attracted 42 delegates from 18 different nationalities across five continents, who listened to a varied group of speakers from the three Abrahamic faiths. We also pioneered Faraday regional day courses with successful events in Hull and Norwich. In addition, Dr Hilary Marlow and Prof. Keith Fox spoke at



Faraday courses in Kenya and Chile. Dr Marlow steps down as Course Director at the end of the year, but will continue with her research with us. We thank her for all she has brought to this role.

This year we have had visiting scholars from the Middle East, Canada and the USA and are currently enjoying the participation of Dr Jonathan Moo from Whitfield University, USA and Cesar Navarro from the University of Panama.

As well as our courses and workshops we continue to engage with the wider public. We hosted an interactive schools' afternoon at the Cambridge Science Festival in March, which was attended by over 120 young people. In October 130 people attended a panel discussion "Artificial Intelligence: Its Future and Ours". Dr Beth Singler also was part of a team who made a documentary for the Cambridge Shorts Festival "Pain in the Machine."

We are preparing to move to a new physical home in the Woolf Building in summer 2017 and we anticipate, with great excitement, the next phase for The Faraday Institute.

We hope you've enjoyed reading this selection of the things we have been doing at the Faraday Institute. To find out more, listen/watch recordings of our events, visit our website, [www.faraday.st-edmunds.cam.ac.uk](http://www.faraday.st-edmunds.cam.ac.uk).





## From the the Von Hügel Institute

The 2016-17 academic year was a very fertile one for the VHI. Our increasingly popular public event series has continued to widen our demographic footprint, but also helped grow international collaborations as well as our impact, both online and offline.

Our public events this past year were organised around the theme of the 'dynamics of dis/agreement'. The idea was to explore the range and different kinds of disputes we have—in all kinds of areas of life—to see whether they are becoming more binary, and if so why, and to think about the forgotten importance and virtue of principled and variegated disagreement. Contributions to this series drew on experts from the UK and overseas across a range of areas of life: philosophy, migration, contemporary Catholicism, law, media, politics, and literature. We saw how principled and reasonable disagreement is key to constructive change and progress but is being thwarted by increasingly sectarian forms of thinking and acting in every area of life: appreciation of difference is key.

The VHI lecture for 2017 was given by Cardinal Luis Tagle, Archbishop of Manila. This inspiring lecture on the theme of 'The Contributions of Catholicism to a Secular University in the Third Millennium' drew a substantial crowd, many having to stand in the aisles and at the back. The Cardinal expanded on the role of the catholic worldview and its diverse living traditions in creating universities and

sustaining the search for authentic and full humanity and ecology through three problematic areas: distorted communication, inequality and exclusion, and healing contemporary wounds. There was not a dry eye in the house.

We also explored the future of worship spaces in a panel discussion co-sponsored by the VHI, the Woolf Institute, and the Warsi Foundation. This brought together young and future leaders from the Abrahamic faiths to think about what sacred architecture of the future should look like. The conversation, introduced by Baroness Warsi and facilitated by Ed Kessler MBE, was both lively and practical, considering amongst other things how to conceive of shared worship spaces in hospitals of the future.

*The VHI lecture was given by Cardinal Luis Tagle. This inspiring lecture on 'The Contributions of Catholicism to a Secular University in the Third Millennium' drew a substantial crowd, many having to stand in the aisles and at the back.*

VHI researchers made over 30 contributions to research publications and have contributed to more than 30 public lectures. Our online presence is increasing dramatically, with the VHI lecture by Cardinal Tagle viewed over 4,000 times, our twitter following has

doubled to over total 40,000 views, and our Facebook posts are now regularly reaching over 5,000 people. We welcomed nine new research associates to the VHI from a variety of faith and geographical backgrounds.

This year the VHI Director started a regular visiting fellowship at the Institute for Religion and Critical Inquiry at the Australian Catholic University (ACU) in Melbourne as part of an ongoing growing relationship with that university. The next stage of which is likely to be a major five-year multi-million dollar research grant on the topic of the 'future of catholicity' based in the VHI and ACU. He also gave a public lecture at the Notre Dame London Gateway on contemporary Catholic identities as part of a growing link with the University of Notre Dame in Indiana.

The VHI is hard at work to consolidate and grow its institutional base. In the Easter vacation the VHI Director and Dean of St Edmund's travelled to the US and had many fruitful meetings with Notre Dame, Georgetown, Fordham Universities, as well as several individuals and foundations in Washington and New York. This work is continuing full pace with the appointment in October 2017 of the VHI's first ever Development Officer, Dr Luigi Gioia OSB. Dr Gioia brings extensive fundraising experience from various international Catholic contexts along with sustained research experience in the areas of our intellectual mission.

## Research Focus

*"This can be useful while looking for explosives, hazardous substances, or anything of the sort."*

## Fellow's Novel Graphene Breakthrough

Researchers from Cambridge and across Europe, including Dr Alan Colli, Fellow, have developed a novel graphene-based pyroelectric bolometer that detects infrared (IR) radiation to measure temperature with an ultrahigh level of accuracy.

The work demonstrates the highest reported temperature sensitivity for graphene-based uncooled thermal detectors, capable of resolving temperature changes down to a few tens of  $\mu\text{K}$ . Only a few nano-Watts of IR radiation power are required to produce such a small temperature variation in isolated devices, about 1000 times smaller than the IR power delivered to the detector by a human hand in close proximity.

### Pyroelectric Bolometers

The graphene-based devices consist of a pyroelectric substrate, with a conductive channel of single-layer graphene and a floating gate electrode placed on top. In pyroelectric materials, changes in temperature lead to a spontaneous electric field inside the material. The floating gate electrode concentrates this field on the graphene, and the field causes changes in the electrical resistance of the graphene, which are measured as the device output.

Typical IR photodetectors operate either via the pyroelectric effect,

or as bolometers, which measure changes in resistance due to heating. The graphene-based pyroelectric bolometers combine both effects for excellent performance and could be used as pixels in a high resolution thermal imaging camera.

### Integration

Graphene acts as a built-in amplifier for the pyroelectric signal, without needing external transistor amplifiers, as in typical pyroelectric thermal detectors.

This direct integration means that there are no losses and no additional noise from connections to external amplifying circuits.

"We can build the amplifier directly on the pyroelectric material. So, all the charge that it develops goes to the amplifier. There is nothing lost along the way," Alan said, co-author of the work.

The use of graphene also offers benefits for further integrating the detector pixels with the external readout integrated circuit (ROIC) used to interface with the detector pixels and the recording device.

"To match the input impedance of the ROIC, you need something that is as conductive as possible. The intrinsic conductivity of graphene helps the further integration with silicon," Alan explains.

Impedance matching is essential to ensure that the signal is transmitted as efficiently as possible. This benefit is unique to graphene due to its combination of high conductivity and strong field effect.

### Spectroscopy for Security Screening

The high sensitivity will be key for spectroscopic applications beyond thermal imaging, such as in security screening. Current IR photodetectors rely on integrated background IR radiation to provide a signal, and are not useful for spectroscopy. With a high-performance graphene IR detector that gives an excellent signal with less incident radiation, it is possible to isolate different parts of the IR spectrum.

"With a higher sensitivity detector, then you can restrict the band and still form an image just by using photons in a very narrow spectral range, and you can do multi-spectral IR imaging. For security screening, there are specific signatures that materials emit or absorb in narrow bands. So, you want a detector that's trained in that narrow band. This can be useful while looking for explosives, hazardous substances, or anything of the sort," Alan points out.



## Research Focus

*This suggested an intimate connection between healing and reading*

## Intelligent Bodies

It is as exciting as it is a privilege to serve as the Toby Jackman Newton Trust Research Fellow at St Edmund's College. My research activities began here at Eddies as a PhD candidate, for the purposes of which I was studying the mind-body relation problem in a period spanning the Middle Ages and the Renaissance. My research has always been driven by genuine curiosity. In early modern texts, be they literary, philosophical or medical, I would often encounter bodies invested with intelligence. In attributing to the body memory, will, passions, imagination and understanding of its own, early moderns projected a psychological schema onto the somatic, which operated independently but parallel to the conscious, rational mind. These instances motivated me to trace the roots of this ontological outlook.

During the course of my research, I discovered that the father of the mind/body dualism was the fourteenth-century scholastic philosopher and theologian William of Ockham, not Descartes, as it is commonly assumed. What was tantalizing about Ockham's theory was not only the proofs he provided for the mind/body dualism and the fact that, on his theory, both of human nature's constituent components are described as possessing their own cognitive capabilities, but also the fact that his dualism flourished during the early modern period. From then on, my central aim was to rethink the origin of dualism commonly associated with Descartes; uncover hitherto unknown lines of reception; explore the importance of this intellectual history for readers' responses to the period's

literary writing; and interrogate related ideological, formal and rhetorical aspects of literary art. My doctoral research was published by Routledge in 2015 under the title *Rethinking the Mind-Body Relationship in Early Modern Literature, Philosophy and Medicine: The Renaissance of the Body*.

*In early modern texts, be they literary, philosophical or medical, I would often encounter bodies invested with intelligence.*

Two questions grew naturally out of my doctoral research. The first one was as to whether this form of dualism survived the collapse of Renaissance humanism. I soon found out that it did, in surprising ways, which suggested an intimate connection between healing and reading. This finding formed the basis for my second book, which I am currently completing. Tentatively entitled *Intelligent Bodies and Poetry's Medicinal Powers in the Ages of Reason and Feeling, 1700-1830*, my new monograph focuses on the relationship between long-eighteenth-century theories of the intelligent body and poetry's medicinal virtues. The first major study of this kind, this project will make an important contribution to the period's reception history and theories of reader response. My overarching thesis is that theories of the autonomous and intelligent body shaped contemporary aesthetics, cognitive psychology and theology in important ways, and that they provided new ways of approaching physical, emotional and spiritual therapies.

The second question revolves around the problem of identifying the fundamental elements of reality in which matter consists. Is it possible to prove that there is an ultimately indivisible elementary particle, a truly physical atom? If so, what properties does it have and how can these properties inform us about the nature and workings of physical reality? Conversely, if physical atomism proves to be unattainable, then what are the implicational relations of this result for physical reality, as we perceive it? These questions baffled philosophers and scientists alike since Leucippus and Democritus came up with the theory of atomism, and they continue to do so to this day. The conceptual/theoretical wealth that exists from ancient Greece to modern-day quantum physics is vast and labyrinthine, but it contains a story well worth telling in a single volume, because engaging the past and the present in a fruitful and informed dialogue can unlock new avenues of thinking.

Both of these new projects are being developed thanks to the freedom that The Toby Jackman Newton Trust Research Fellowship affords to scholars to pursue their own research interests, in the supportive academic environment of St Edmund's College.

**Dr Charis Charalampous**  
Toby Jackman Newton Trust  
Research Fellow

## Research Focus

*At the moment there's no cure, but Su believes she can change that.*



## Revolutionary Auto-Immune Treatment

**Former Fellow Dr Su Metcalfe may be on the verge of curing Multiple Sclerosis and significantly helping millions of sufferers of other auto-immune illnesses.**

MS, an auto-immune condition which affects 2.3 million people around the world, attacks cells in the brain and the spinal cord, causing an array of physical and mental side effects including blindness and muscle weakness. At the moment there's no cure, but Su believes she can change that.

Su was working at the University of Cambridge's department of surgery when she made her big breakthrough: "I discovered a small binary switch, controlled by a stem cell particle called LIF, which regulates inside the immune

cell itself. LIF is able to control the cell to ensure it doesn't attack your own body but then releases the attack when needed." That LIF plays a major role in tissue repair generally, turning on stem cells that are naturally occurring in the body, making it a natural regenerative medicine, but also plays a big part in repairing the brain when it's been damaged.

Previously LIF could only survive outside the cell for 20 minutes, meaning there was not enough time to deploy it in a therapy. This is where technology, in the form of nano-particles, comes in. "We load the cargo of the LIF into those particles, which become the device that slowly dissolve and deliver the LIF over five days. The nano-particle itself is a protective

environment, and the enzymes that break it down can't access it. If you add antibodies to the particles, it becomes a homing device that can target specific parts of the brain, so you get the right dose, in the right place, and at the right time."

"We're not using any drugs," Su explains, "we're simply switching on the body's own systems of self-tolerance and repair. Once you've done that, it becomes self-sustaining and you don't have to keep giving therapy, because the body has its balance back." If it works, this therapy could revolutionise the treatment of all auto-immune conditions.



## Alumni News



### Alumnus elected Judge of UN Tribunal

Kriangsak Kittichaisaree (PhD Law, 1983) has been elected to the International Tribunal for the Law of the Sea by the UN.

Professor Kittichaisaree joins twenty other judges on the United Nation's intergovernmental organisation, which provides a legal frame work for all oceans of the world, including those outside national jurisdictions. His nine year initial term commenced on 1 October 2017.

Currently Professor Kittichaisaree is also Ambassador of the Kingdom of Thailand to the Russian Federation and, concurrently, Armenia, Belarus, Moldova, and Uzbekistan. He has held visiting professorships at world-renowned institutions in Australia, Singapore, and the USA and has recently published a new book entitled, Public International Law of Cyberspace, a book explaining how cyber activities are regulated under international law.



### New Alumni Society Treasurer: Sam Aworinde

Sam Aworinde (MPhil, Adv Chemical Engineering, 2008) has been elected as Alumni Society Treasurer at the Annual General Meeting in late September.

Sam and his wife Victoria first met during their undergraduate studies at the University of Lagos in 2004. "I should probably say it was a case of love-at-first-sight, although we actually started dating about a year after we first met," Sam says. After completing the Bachelors program in 2008, he left for the UK to study for the MPhil in Advanced Chemical Engineering at Eddies, on a Shell scholarship. A year later, Victoria received the prestigious Gates Cambridge scholarship to study the same Masters program at Queens'

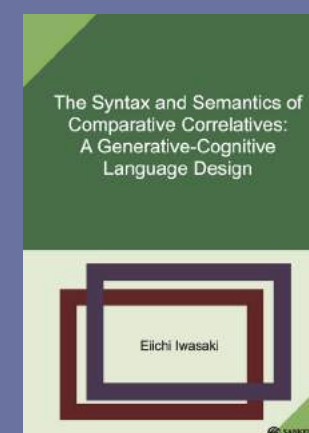
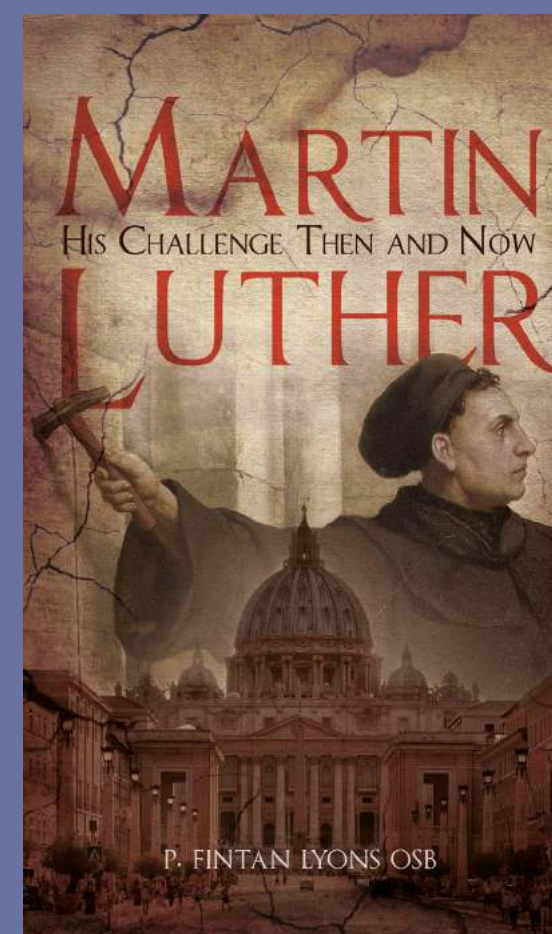
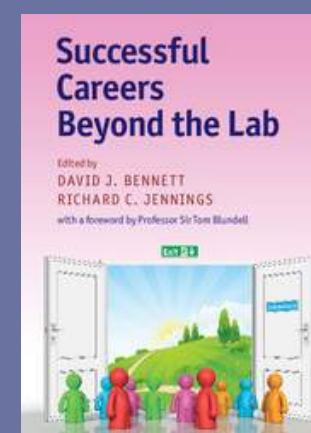
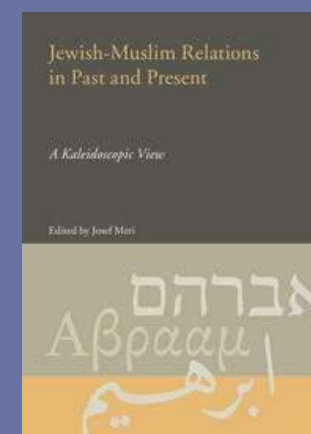
College. They continue to live and work in Cambridge. Victoria has a PhD from the University and Sam is in the middle of achieving his too. Victoria and Sam got married in Cambridge in 2013, and for the second time in a more traditional fashion in Nigeria in 2014. They have a two-year-old son, Ethan, who was born in 2015.

"I am honoured to be the new St Edmund's College Alumni Society Treasurer," Sam says, "and I look forward to helping the society run smoothly and achieve its future objectives." Sam is taking over from Peter Arthur, who, with his wife Diana, has served the Society faithfully for three years.



One of the many worldwide Eddies events: Alumni and current student enjoy 'Kaffee und Kuchen' in Freiburg, Germany.

## Recent Publications by Alumni & Former Fellows



## Upcoming Events

23 March  
College Guest Night with Alumni

23 March  
2020 Boat Club Dinner

17 June  
College Garden Party

6 July  
College Guest Night with Alumni

22 September  
Alumni Society Concert & Dinner

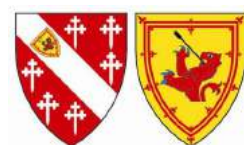
TBA November  
**London Lecture**  
In response to the Alumni Survey we will be hosting an exclusive lecture by eminent Eddies academics and researchers in London in November.

See Parul Bhandari, alumna, talk about what makes St Edmund's special on YouTube. Search: 'St Edmund's Cambridge'





The crest is based on that of the Baron von Hügel and features a blue eagle, ancient crown and feathers.



The arms attributed to Saint Edmund replace the dismembered Scottish lion (above).

The shield is based on the arms of the Dukes of Norfolk.

The thick white line around the shield is an essential part of the design as it distinguishes the College's arms from those of the Norfolks.

College Motto  
'By revelation and reason'

## Our Coat of Arms

Previous to the 'grant of arms' to the College thirty years ago, St Edmund's was using the arms of the Duke of Norfolk as its identifying symbol.

When the College received its royal charter in 1996 it was decided that Eddies should apply to have its own coat of arms. Since its establishment, St Edmund's had used the coat of arms of the Duke of Norfolk 'undifferenced'. Many other Cambridge colleges - Clare, John's, Christ's and Selwyn among - them have used, and still, use the arms of their founders.

As those of the Norfolks include the so-called 'Flodden Augmentation', a dismembered Scottish lion, it was felt that this should be replaced. The arms often attributed to our Patron Saint, and used by St Edmund Hall Oxford, took the place of the unfortunate lion. To ensure the arms could not be confused with those of the Norfolks a white border was added, which is now an essential part of the overall design.

The design of the crest follows that of the Von Hügel Family, a noble family from central Europe and includes elements

typical for Germanic heraldry. The crest is only the part on top of the shield.



**Our Badge**  
Martlet birds feature on the arms of Saint Edmund. Medieval heralds believed that these swallow-like birds never landed, they are hence always depicted without legs. It is symbolic of Eddies' continual striving for upward movement and improvement. The bird holds a columbine in its beak.

## Stay in Touch

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Holy Spirit, give me the love of God and to humankind that will blot out all hatred and bitterness  
Dietrich Bonhoeffer

Plaque in the Anglo-German Millenium Friendship Garden





Per Revelationem et Rationem