

THEFUELLER

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Mid-Summer Court Dinner

On Energy, algae and joining the Fuellers.

Listen to Radio Four for even a short while and the subject of energy will be discussed at some point. Whether it's emerging renewable technologies, the UK's overall energy mix, our gas supply sources or simply the price of fuel for our cars, the subject of energy remains front-of-mind.

With my longstanding friend, Court Assistant Michael Shirley, I had attended a couple of Fuellers' events so I felt genuinely honoured when he invited me to apply to become a Freeman of The Worshipful Company of Fuellers. After the initial feeling of having had a great honour bestowed upon me, I was brought back down to earth with the news that I would first receive a call from the current Master, Chloë Andrews-Jones.

I need not have been concerned. Chloë was very warm and friendly, asked me about myself, told me about the work of the Company and explained the process of becoming a Freeman. I was also told to expect a call from Senior Warden Shravan Joshi. His call was equally welcoming, informative and relaxed. I assume I must have said something right, because I subsequently learned that I was to be admitted at the Court meeting just before the Mid-Summer Court Dinner to be held at Tallow Chandlers' Hall, 6th June 2018.

Rebuilt after the Great Fire, Tallow Chandlers' Hall was completed in 1672 and, apart from some alterations over the years, remains pretty much original having survived the war without major damage. So, it was in a very historic and impressive wood-panelled Court Room, surrounded by Court Assistants looking down from their raised platforms on all three sides, that Martin Chitty, Richard O'Brien and I became Freemen of the Company and Alan Rance was enrobed into the Livery.

The formalities over, a receiving line of the most senior Court members was an opportunity to be introduced, following which I entered a beautiful, sun-lit courtyard to enjoy a few glasses before the Mid-Summer Dinner commenced. It was a great opportunity to meet other members of the Company and their partners. Summoned to dine, it was a short walk up an elegant staircase to a large and very impressive Dining Hall complete with paintings of the-great-and-the-good high up on the panelled walls. Filling the centre of the room was a very substantial u-shaped table – immaculately laid out for around eighty members and guests.

The conversation, food and wine were excellent and I had a good view of our guest speaker, Professor Alison Smith from the Department of Plant Sciences, University of Cambridge. She explained how she and her team are using algae and other microbes to make a multitude of valuable chemicals, ranging from vitamins through to biodiesel, and even harnessing their power to produce biological solar panels. I had no idea that algae could be such a valuable source of sustainable energy. I would never look at our garden pond in the same way again.

Freeman Ian Arnold



The Master greeting Liveryman Mike Hogg



The Master and Wardens with official guests. L-R: Master Engineer David Johnson, Principal Guest Alison Smith, Master Public Relations Practitioner Katherine Sykes



Hon. Court Assistant Roger Cloke, Liverymen Diane and Alan Dowdell and Court Assistant Ashutosh Shastri



New Freeman Ian Arnold and the Master Public Relations Practitioner



Beadle Lt Col Mervyn Bassett BEM leading the Master and official guests to dinner



The Master and the Master Engineer are attentive



Past Master Edward Wilkinson CBE with his granddaughter Freya Wilkinson



The Senior Warden in action



Principal guest and speaker Professor Alison Smith FRSB

THE COURT

I have been asked to write a regular feature on the activities of Court so I'll start with a reminder of its role, which can be seen as the main board of the Fuellers. It is chaired by the Master in their year in office and consists of the officers, 20 voting Court Assistants and Honorary Court members. They set the strategic direction of the Company to be executed by the General Purposes Committee and the various sub committees, then exercise oversight of them. The Master and Wardens, the majority of sub-committee members and all members of GPC are members of Court, it follows that election to Court is a preliminary to getting involved in running the Company and making the most of your membership.

This year focus will be on delivery of the Company strategy through GPC and the sub committees and the continuing preparations for 2019 – 2020 for our Royal Master. Court also considers GPC nominations of prospective new members and annual nominations for Court Assistants and the incoming Junior Warden (who will, all being well, become Master). We have sub committees covering Comms (corporate comms), Industry Group, Membership, Sponsorship and Donations, Fuellers' Merchandise.

The focus on the Royal Year will not detract from enjoying Shravan Joshi's year as Master and he is likely to be very busy with his business, his duties as a Common Councillor and Master as well as looking ahead with Court, GPC and the Fuellers Charitable Trust Fund (CTF) to 2019 – 2020 when, in addition to the 'normal' events in the Fuellers' year we are planning a major conference managed by the Industry Group and a fund raising event led by the CTF. More about those later.

Finally, the recruitment event in September went extremely well. May I ask sponsors of new members to mention the importance of charity in the role of the livery during their conversations, and, if they feel they can, encourage new members to make a regular donation to the CTF, using the flyer in the Membership Packs.

As we start another year in the Fuellers life I look forward to meeting you and if I can help please contact me. I work for the Fuellers three days a week and generally manage to get back to people fairly quickly.

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IN MEMORY

We remember them for their friendship and mourn their passing

We are saddened to report the passing of one of our very early members Liveryman Geoffrey (Geoff) Ashmore.

Geoff was admitted as a Freeman on 24th April 1986 and enrobed into our Livery on 10th October 1991. Most of his working life was spent in the Coal Industry - both before and after nationalisation - where his experience servicing the industrial market was renowned. He later became involved with the developing of the terminal at Immingham, - initially for the export of coal but now handling imports of both coal and other bulk materials. Geoff suffered a fall in August, was taken into hospital and died peacefully on 31st August 2018. He was 92 and widowed some years ago.

Global leader in offshore wind?

Through Court Assistant David Lewis, Industry Group Chairman, the Company has a loose affiliation with the All-Party Parliamentary Group on Energy Costs (APPGEC). David is the technical adviser to this Group and, through his membership, Fuellers are able to attend meetings in which they may have an interest.

Late June found the Master in a Committee Room at the House of Lords for the APPGEC meeting relating to the Offshore Wind Sector Deal. Three short presentations were followed by a lively Q&A session. The Master recommends all Fuellers look out for David's next invitation; these are not meetings that anyone can turn up to, even if you happen to be the Master Fueller!

There's a lot to learn on this topic. At the turn of the millennium, the UK's first offshore wind facility opened at Blyth, operating with two turbines generating 4 MW. Support of this sustainable power source from successive governments has enabled the UK to become the global leader in offshore wind. Currently supplying 6% of UK energy needs (sufficient to power 6 million homes), the industry's ambition is to produce 30 GW by 2030 ("30 by 30"), which would be a third of UK's demand.

To meet these goals, £48 billion investment is required, but the Offshore Wind Industry Council (OWIC) claim this would boost exports five-fold to £2.6 billion a year, reducing UK system costs



by £2.4 billion. These are big numbers that would benefit the jobs market too, creating as many as 16,000 jobs, many of which would be in coastal communities where there is the greatest need for economic development. Apprenticeships and jobs in innovation and engineering are just two of many fields relating to the industry.

Master Chloë Andrews-Jones

Our Learned Clerk has a most famous namesake, Sir William Walworth, who was twice Lord Mayor of London (1374–75 and 1380–81).



Death of Wat Tyler by Froissart

His family came from Durham. He was apprenticed to John Lovekyn, a Fishmonger, and succeeded his Master as alderman of Bridge Ward in 1368, becoming Sheriff in 1370 and Lord Mayor in 1374. He was Member of Parliament for the City of London in 1371, 1376, 1377, and 1383 as one of the two aldermanic representatives of the city. He worked for a time in the Customs House under Geoffrey Chaucer.

His most famous exploit was his encounter with Wat Tyler during the Peasants' Revolt of 1381, in his second Mayoralty. In June of that year, when Tyler and his followers entered south London, Walworth defended London Bridge against them. He was with Richard II when he met the insurgents at Smithfield, and slew the rebel leader with his baselard (a medieval long-bladed dagger, originating from Basel in Switzerland). The circumstances of the killing – including whether Walworth planned the attack or struck on the spur of the moment – have always been unclear.

Walworth raised the city bodyguard in the King's defence, for which service he was rewarded by a knighthood and a pension. He subsequently served on two commissions to restore the peace in the county of Kent.

William Walworth is commemorated with a statue on Holborn Viaduct, near the boundary of the City of London. He died in 1385, and was buried in the church of St. Michael, Crooked Lane, of which he was a considerable benefactor.

The Master's Review

At the time of writing, I have less than three weeks remaining as your Master, but I'll continue to be busy with the Admission of the Sheriffs, Common Hall and several other Livery events before Fuellers' visits to not one but two Military Affiliates with our annual trips to 10 Squadron at Brize Norton and HMS Sultan. Earlier this month I was very lucky to attend the Tactical Support Wing's Battle of Britain/RAF 100 dinner at MOD Stafford. It was a very special evening that included renditions of some of Churchill's famous wartime speeches by a former Wing member, actor Steve McTigue. There's also time for a weekend trip to the Freemen and Guilds of the City of Chester to attend their Annual Banquet and Guilds' Service.

I don't think anything really prepares you for life as the Master of our Company. To say it's been busy is an understatement, but I have relished the chance to get out and about, to meet people, to spread the word about our Company and learn more about others. I've made some great friends in the Livery, and the Ironbridge weekend in June was a good opportunity to spend time with them whilst discovering quite how important coal was to the industrial revolution.

Two very contrasting areas of the Corporation's work were on display during our visits to the Animal Reception Centre at Heathrow in April, and the City of London Police in June. The ARC has both a quarantine centre and an export and import transit system with the facilities to house all creatures great and small. It is crucial work as it is the only centre in the UK that can take any animal from any country, providing welfare to all animals whether they are to remain in this country or are just in transit. We saw several different species and examples of the containers in which they are transported, both legal and, regrettably, illegal.

Our visit to the City of London Police gave us a chance to meet some of the Force's four legged members, visit the Operations Room, meet an officer responsible for investigating traffic accidents and chat to members of the armed response unit (you should feel the weight of the specialist equipment they wear). However, our day began with a series of presentations from the Economic Crime Division which gave us a real insight into their local, national and indeed global work as they investigate cybercrime, money laundering and fraud.

We finished our Police visit with a trip to the Museum.

Unfortunately, trying on some police headgear landed me in hot water as, during a visit to the Old Bailey, with several other Masters, I was arrested for impersonating a police officer. I was not alone. Other Masters were arrested for all manner of crimes, and we were all whisked off to imprisonment at the Tower of London (wearing a ball



TSW dinner



ARC visit



Police visit

and chain I might add). Happily for me, and thanks to the generosity of my fellow Fuellers, sufficient bail money was raised to secure my release and a relaxing cup of tea in the garden of All Hallows by the Tower was very welcome on a rather warm day.

By the time you read this, I should have completed my own fundraising activity for the Trust. It's my own "Fuellers Tale", my journey from the West End to the City, as I plot a course past my places of work, in search of opercula. I've had some good training for this as I've joined other



Ironbridge

Masters on walking tours of the Livery Halls in the City and some of the City's fabulous churches. I also spent a day walking the course at the Fuellers' Golf Day; the weather was fabulous and the golf was ... well, golf.

During the year, I have visited all three of the Platanos Trust's schools, and continue to be amazed at the hard work and dedication of their staff in what can be a challenging environment. Stuart Goldsmith and I attended Winterbourne Boys' Academy Year 6 graduation, where I presented the overall achievement prize and enjoyed delivering a speech to the boys and their parents and carers. Together with Platanos's Acting Head of School

Mona Taybi, I paid an informal visit to Castle Hill Academy in New Addington in September and was delighted to spend some time chatting to Year 4 and Year 5 pupils; could these be our STEM subject pupils and energy professionals of the future?

So many other events! I enjoyed welcoming Fuellers to Marlow and the surrounding area in May (the only rainy weekend of the summer?), and June saw us gather at Tallow Chandlers for the Midsummer Court and Dinner. July found me at Princess Royal Barracks where members



Go-Karting: Andrew Milner, Abhi Kohok, Dennis Woods, The Master and Tim Woods

of 152 (North Irish) Regiment's band helped Beat the Retreat, and providing picnic supplies to the Fuellers' team at the City Go-Karting.

August is traditionally a quieter month in the City but I journeyed to Portland for the RFA Tiderace Service of Dedication and in September, I watched Wasps and Exeter put on a superb display of rugby, danced the night away at the Sheriffs' Ball, and hosted the Ezra Memorial Lecture at Trinity House.

Within the Company, it's super to see all our Committees making progress. The Membership Recruitment evening at Guildhall Club in September has yielded several new recruits, the Sponsorship and Donations Committee are putting some cash in the "Royal Year" bank, and the Industry Group are working hard on the Energy Conference which will take place that year. Thanks to our new Comms Group, I've enjoyed tweeting and putting news on the Company's new Facebook page too!

In closing, I'd like to give my sincere thanks to the Learned Clerk and all the Fuellers who have supported me during my year, I hope you have felt included. I must also give special thanks to my consort Peter and to my family for being by my side throughout.

Master Chloë Andrews-Jones

Master's Weekend

Marlow - 11th to 13th May 2018

FRIDAY EVENING BBQ

Friday evening brought a welcome BBQ to ease into the weekend. In a beautiful setting overlooking the lake, we dined on freshly grilled delights on an outside buffet at the comfort of our own tables hosted by Master, Senior Warden, Junior Warden Elect and Immediate Past Master.

In the true 'include' theme of the weekend, the children thoroughly enjoyed the BBQ and went off to explore the climbing frames while the adults sat back. As the cool of the evening settled in and the wine flowed, we mingled and enjoyed catching up with acquaintances and making new friends.

A few wondered if they had partaken a little too much at this early stage as we saw what we like to think was a fairy over the lake (though don't tell the Master it could well have been a drone with sparklers attached). Either way, a very agreeable start to what was to be a fun filled and very 'inclusive' weekend.

SATURDAY AFTERNOON THAMES BOAT TRIP

Our river cruisers enjoyed an afternoon of beautiful sunshine (to begin with), many having a glass of bubbles in hand. The wildlife was fascinating; wild fowl and 'weeny' goslings in abundance.

The Master kindly arranged a generous finger buffet, much enjoyed in the afternoon sun. A smooth passage upriver, with a short delay at only one of the three locks transited, ensured there was time to moor up and take a trip ashore to explore a little of Henley's delights.

Shortly after leaving the Henley Regatta course in our wake on the return leg, the weather changed affording the opportunity to go below, hoover up a little more of the buffet and 'circulate'. The afternoon ended very satisfactorily, albeit under an umbrella.

SATURDAY DINNER

Friday's informal barbecue supper was followed on Saturday by a more formal dinner held in the Glaze Conservatory

Friday evening BBQ

restaurant of the Crowne Plaza Hotel at Marlow. We were seated at circular tables, each presided over by a senior Member of the Company, namely, the Master, Senior Warden, Junior Warden and Junior Warden Elect. The dinner included two well-chosen fish courses, followed by a tasty dessert. Conversation at the tables was lively; at this correspondent's table it ranged from Obstetrics to Inheritance Tax!

The Senior Warden, Shravan Joshi, made a presentation of a thank you gift to the Master of a pair of earrings. In her response, the Master expressed her particular pleasure, on behalf of the Company, at the presence of Mrs. Doreen McGechan, widow of Mr. George McGechan who was Master of the Company in 1989/90. Mrs. McGechan is a resident of Marlow.

Towards the end of the meal, Roger Cloke, Membership Assistant, delivered a stirring call to all Members of the Company to do their utmost to recruit new members by approaches to colleagues, friends and acquaintances within the energy industries, customers and, even, competitors.

BEKONSCOT VISIT

The Sunday morning saw us all convene, with excellent direction from Peter on various street corners, at Bekonscot Model Village & Railway which first opened in 1929 and is still going strong!

The beautiful vintage railway carriage was a suggestion of the delights to follow as we stepped into a miniature world. Armed with quiz sheets devised by our Master and pens at the ready, we all enjoyed a good peek into the miniature world that held many links to the Livery Companies! With so many details and Liveries to find, Mercers, Grocers, Shipwrights, Carmen and Apothecaries to name but a few, the detail was so fascinating that we could have stayed all day and still seen parts we hadn't noticed before.

The children thoroughly enjoyed seeing the village and town scenes, from window cleaners falling off ladders to a thatched cottage on fire. It was not all drama with a beautiful circus, airfield of gliders, a cathedral mid-Christening (although one bell ringer had



Saturday afternoon boat trip



Saturday afternoon boat trip



Sunday morning. Bekonscot Village

not let go of the rope) and even a game of rugby for Chloë to enjoy! There was also a light railway which some adventurous Fuellers went on for a ride, with the children of course! "I liked going on the train and seeing the man being pulled up by the bell. I loved looking at the fair and I liked the playground because it made me happy." Hermione & Sophia Marsh. A thoroughly fun time was had by us all and congratulations to Andrew and Ingrid Strawson and John Sharp who won the quiz!

SUNDAY LUNCH

As the Bekonscot Village adventure for kids (both large & small) drew to its conclusion, an advance party led by the Senior Warden set off to find our venue for Sunday lunch, The Crown in Penn. With a journey of less than 3 miles, it says much for the independent-mindedness of Fuellers that five vehicles managed to find four different routes and arrive from all directions.

Having assembled in the car park, the vagaries of UK licensing laws meant that our landlord was unable to admit the advance party straightaway – leaving this small group of Fuellers waiting on the pub doorstep anxiously clock watching. A new experience for some, a regular occurrence for others!



Saturday dinner. Liveryman and former Court Assistant John Sharp, Past Master Janet Harrison, the Master, Past Mistress Doreen McGechan and Past Mistress Elinor Goldsmith



Sunday Lunch at The Crown

As noon and our main party arrived, all entered this delightful country pub for more drinks, conversation and good fellowship. The numbers and noise generated by this happy band of Fuellers meant that our landlord and his team needed assistance to ensure the correct lunch arrived to the correct Fueller. Once again, our Master swung into action and was soon conducting the delivery of a variety of excellent roasts with the verve and deftness of a wannabe Henry Wood at the Last Night of the Proms.

Then, after an equally delicious selection of desserts (which required your correspondent to redefine the meaning of the word diet), another excellent Master's Weekend drew to a close – with all parties expressing their thanks and appreciation to both the Master and her Consort for the arrangements and their company over the three days.

Many thanks to Liveryman David Rose for his photographic services throughout the weekend, and to Junior Warden Elect Carrie Marsh, Court Assistant Alan Dowdell, former Hon. Court Assistant John Sharp and Freeman Bert Marsh for their contributions to this report.

IGas Energy Visit

On Wednesday 23rd May, in fine weather, thirteen Fuellers visited two of IGas's one hundred onshore oil and gas production sites in Britain, hosted by Julian Tedder, Chief Financial Officer. The visit was arranged by Liveryman Andrew Strawson.

After Andrew and his wife Ingrid's welcome breakfast of croissants, we departed by minibus to the first site, near Winchester. After a good safety induction, it was fascinating to see a "workover rig", a small drilling rig commonly used on onshore oil and gas sites, and a beam pump, commonly known as a nodding donkey. The advantages of beam pumps are simplicity and energy efficiency; when well-balanced, it is possible to move the beam by hand. The beam operates a very simple cylinder pump at the bottom of the well, and is not too



The Fuellers group and hosts

prone to damage if inadvertently run dry. Each beam is set up to operate across a particular range of pumping rates; changing the pump rate outside of that range entails some downtime, so IGas is experimenting with a partner on novel alternatives to beam pumping technology.

IGas Production Director, Chris Beard, explained how for higher flow rates the alternatives are an electric submersible pump (ESP), which is costly at £1m per pump and may fail if run dry, or a jet pump, entailing pumping oil down the well into a small section of narrow pipe with an orifice; more oil is sucked in from the well to the orifice, so perhaps twice as much oil comes back up a second pipe, than was pumped down. The jet pump is robust against being "run dry", so although less energy efficient, they are often used where a higher flow rate is available than could be pumped via a beam pump, with a beam pump perhaps being used later in the well's life when it becomes less productive.

IGas generously provided lunch at a lovely pub before we moved on to the second site near Singleton, West Sussex. Here, another workover rig was in use, and it was amazing to see the speed (about 40 per hour) at which 50-foot sections of drilling rod could be attached by the small team to one another and lowered back into the hole, the workover of the well having been completed. This well-hole was bent at 90 degrees in 5 degree turns. It was curious to think that the apparently-rigid metal drill rods could cope with such a bend, and still be able to turn.



Beam pump (nodding donkey)

The site had more beam pumps, and a pair of small flares as there was no current use for the small amounts of associated gas. As at most such sites, the oil is taken away by a small number of tankers per week, after the oil has been heated and put into separator tanks to remove the associated water, which being salty and dense, can later be pumped back down into the well.

Liveryman Paul Mott

Fuellers Thanksgiving Service and Affiliations Lunch 9th July

I start this report at a disadvantage as my East Midland Trains service from the Crooked Spire Town of Chesterfield had a Power Car failure at Leicester and the struggled to St Pancras on one Car arriving 1 hours late.

Added to which the taxi took three quarters of an hour through log-jammed London to get me to Trinity House in time for the Reception, missing out on the Service at St Olave Hart Street! Although Peter Mullen said some will go to great lengths to avoid his sermons this aficionado would even travel to Eastbourne to hear one.

St Olave's is one of the few mediaeval buildings to have survived the Great Fire of London in 1666 and is also the burial place of Samuel Pepys. This years'



Father of the Company, Past Master Michael Bryer Ash with his guest Jessica Stephenson Clarke, granddaughter of the Founder Master

service was as usual conducted by our Honorary Chaplain the Revd Dr Peter Mullen who also preached. His sermon this year focused on the importance of studying and absorbing the company history and also on the 'generosity of the soul' as symbolised by voluntary charity which the Fuellers Company and Charitable Trust are all about.

On arrival at the magnificent Trinity House, the 'fizz'



The Hon. Chaplain warming up the congregation of Fuellers at St Olave Hart Street



Past Mistress Suzan Woods with James Mattinson, an Arkwright Scholar sponsored by the Charitable Trust

Thanksgiving Service continued...

was most welcome to lift one's frame of mind after hazardous travel and the excellent Lunch followed.

The Guest of Honour was Rear Admiral John Kingswell CBE who is Deputy Commandant of the Royal College of Defence. He pulled no punches as he laid out his authoritative views on the future of our troubled world.

The Junior Warden then announced the names and the

citations of the prize winners from the Company's affiliations and from Platanos College. As their names were read, each came forward to be presented with their prizes by the Rear Admiral, accompanied by the Master and by the Chairman of the Charitable Trust, Past Master Stuart Goldsmith.

All in all, another very successful event starting with the Service followed by an excellent lunch and the Prize Giving.



The Master and Consort greeting principal guest Rear Admiral John Kingswell CBE



Immediate Past Master Janet Harrison with Mrs Salina Abdessalem, mother of the Platanos prizewinner



Past Master John Ingham with former Clerk Sir Antony Reardon Smith Bt.

Congratulations to the following on their awards:

Flight Lieutenant Steve Sansford RAF – 10 Squadron Royal Air Force

Flying Officer 'Charlie' Woollatt RAF – Tactical Supply Wing Royal Air Force

Petty Officer (E) Neil Coleman – Wave Knight Royal Fleet Auxiliary – The Husband Rose Bowl (collected on his behalf by Commodore Lamb)

Squadron Leader Dan Cook RAF – Defence Strategic Fuels Authority Royal Air Force

Warrant Officer One Matthew Newman – Royal Naval Air Engineering and Survival Equipment School HMS Sultan – The Daedalus Trophy

Corporal Michael O'Brien – 152 (North Irish) Regiment Royal Logistic Corps – The Woods Trophy

Tassnim Abdessalem – Platanos College – The Harrison Cup for Outstanding Student

Past Master Edward Wilkinson CBE

The Presentations



Flight Lieutenant Steve Sansford RAF 10 Squadron Royal Air Force



Flying Officer 'Charlie' Woollatt RAF Tactical Supply Wing Royal Air Force



Squadron Leader Dan Cook RAF



Warrant Officer One Matthew Newman Royal Naval Air Engineering and Survival Equipment School HMS Sultan



Corporal Michael O'Brien 152 (North Irish) Regiment Royal Logistic Corps



Tassnim Abdessalem Platanos College



The UK's climate change targets will be met – or missed – on the country's roads. The rapid and ongoing decarbonisation of its power generation fleet means that transport has become the biggest source of the UK's greenhouse gas emissions. Reducing those emissions will require the widespread uptake of electric vehicles (EVs).



The Fueller is sponsored by EY

The Government recognizes the challenge. It has pledged to halt the sale of new petrol and diesel engines by 2040. In last November's budget, it earmarked £500 million of public money to support EV charging infrastructure and subsidize new EVs. And it has set a target that a quarter of the central government vehicle fleet will be electric by 2022.

That's a good start, but it doesn't go far enough. The UK Parliament's Climate Change Committee estimates that, to ensure the UK achieves its climate goals, around 13.6 million EVs would need to be on the UK's roads by 2030.

According to analysis conducted for EY by a team from the University of Melbourne, these EVs would require around 1.5 million public charging points, costing almost £7b (US\$9.5b).

Given ongoing pressure on the public finances, much of this investment is expected to come from the private sector. But with only a small number of EVs on the road at first, the business case for private EV charging infrastructure is challenging.

EY research with a leading global analyst house has identified EV price and performance parity as one of three tipping points that promise to transform the energy sector. But with this point only being reached in 2025, it will come too late for the UK's climate targets.

So how can the Government further support the necessary EV infrastructure development?

The first step central government must take is to educate and inform the local authorities that will be responsible for delivering most of the charging points. An EY survey of local authorities found 33% have, thus far, no public EV charging at all, with a further 34% with no plans to increase the number of charging points they do have within the next three years.

Interviews with local authorities found that many are unaware that funding is available for EV charging infrastructure, or were unsure how to access it.

Meanwhile, deployment of EV charging follows a bureaucratic tender and planning processes. It is not unusual for local authority tenders to lead to 18 month lead times, with an additional six months or more often required for new electricity installations. While it is important to ensure that charging infrastructure meets the highest safety standards, simplifications and amendments to tendering and planning processes as they relate to EV charging points would speed investment.

There is much central government can do to support local authorities in developing crucial EV infrastructure. It has a role to play in coordinating charging infrastructure nationally, and in providing a central point of contact for local authorities. It could go further in encouraging local authorities to provide a specific number of charging points, although we recognize that this would be politically difficult.

Investors are expecting the government to provide more certainty and commitment to the growth in the EVs, and their role in meeting its legally binding carbon reduction targets.

The private sector has a more crucial role to play, and one that will become more important as EV roll-out begins to accelerate. Early movers need to begin investing in, and experimenting with, business models that combine other services with the physical delivery of electrons to EVs.

These might involve energy retailers offering mobility services, or the electrification of private fleets, as stepping stones to investment in public charging infrastructure. This multi-industry convergence will be central to success in the EV ecosystem. The ability of businesses to adapt their business models and combine new and existing revenue streams will separate the winners from the losers.

Such an approach is, without doubt, challenging in an evolving field. But we would recommend three starting points. First, learn by doing. Converting parts of your own fleets to EVs will help businesses understand the issues at play, as well as potentially cutting costs and reducing emissions.

Second, experiment wider aspects of EV value chain beyond your core business model to see if you have capabilities, experiences that can add value in an emerging EV space. You may find that you can stretch into new growth areas.

Most importantly, define your strategy at board level. EVs promise to be disruptive to a number of sectors; companies need to decide if, how and when they want to engage with the technology – and how they plan to make money when they do.



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'Energy In The City'

September saw Fuellers once again make their way with great anticipation to the Annual Ezra Memorial Lecture (the 14th), inaugurated by the generosity of the late Lord Ezra of Horsham MBE.

The autumn equinox may have passed but the weather, like the rest of the summer, was bright and warm as the audience gathered at Trinity House on September 26th to listen to Christopher Hayward CC, Chairman of the City of London Corporation Planning and Transportation Committee since 2016 and Common Councillor for the Broad Street Ward since 2013, talk to the subject 'Energy In The City'.

Christopher set out in a most knowledgeable and informative way the energy challenges facing our great city as it seeks to improve its energy resilience, reduce its carbon emissions and reduce the costs incurred to power one of the busiest commercial mercantile hubs in the world.

Christopher started by setting out his rationale as to why the City needed to change and adopt a progressive energy policy in which issues such as air quality, flood risk and climate change are addressed by adopting and encouraging low or zero carbon infrastructure and by demonstrating good energy and carbon credentials.

Chris linked the work of the City of London Corporation

Chris drew attention to the many initiatives the Corporation has underway including the Corporate Plan 2018-23, the Responsible Business Strategy over the same period, the City Local Plan to 2036 and the City Transport Strategy to the same date all of which have a progressive energy strategy at their heart.

Chris also laid out the tangible steps being taken such as the possible extension of the Citigen CHP facility and that from next month the Corporation will source 100% of its energy needs from renewable sources.

Following the presentation of facts, figures, assumptions, aspirations and actions, Chris moderated a most lively and interactive discussion on the themes raised with perhaps the biggest take out from this being his call for The Fuellers Company to spread the message and to use its inherent skills and knowledge to play an active part in the creation of forward thinking 'progressive' actions.

In traditional style not only did Fuellers give their twopenn'orth in generous support and polite challenge in the formal setting but the exchanges carried on over drinks and canapes before finally tents were folded up for the journey home - or to the pub next door!

The setting was glorious and the fellowship most welcome.



Christopher Hayward CC

back to the UK Clean Growth Strategy published by the Energy Minister in 2017. In fact, he went further to explain that the Corporation had wanted to understand better how it could respond to this strategy and to do this had commissioned AECOM to investigate the issues and make recommendations.

One of the key findings is the confirmation that c66% of energy consumption in the City is powered by electricity with the demand having significant time peaks and geographic concentration. As such much of the early attention has been paid to how the electricity consumed can be decarbonised.



The Master with the Speaker flourishing the Fuellers Crest



Appreciative audience

All agreed that not only was the event another terrifically successful edition of an Annual Ezra Memorial Lecture but also it prompted a strong desire to keep keen eyes peeled for news of the 2019 Lecture.

It was, and is, also fully appropriate to give thanks to the very kind agreement from the Trustees of the Fuellers



Asking the Question: Past Master Andrew Bainbridge

Charitable Trust Fund to be the primary funder for the event using the bequest Lord Ezra specifically made to ensure the continuation of his vital date in the Fueller diary. His Lordship would have been proud.

Past Master Paul Cuttill OBE

Airs & Graces

In the years before the incomparable Peter Mullen stepped in as Fuellers' Chaplain we had another treasured cleric, Rev. Basil Watson officiating at our luncheons and dinners.

Basil's claim to fame was that he composed doggerel Graces not only for the Fuellers but also for the other Livery Companies to whom he was Chaplain.

In 1993 he wrote a marvellous hardback book – "Airs & Graces" – where he quoted 250 of his prayers of thanks for good meals. There are many colourful illustrations in the 186 pages. The book describes the Freedom, Guildhall, the idea of the Livery and the Shrievalty. It also lists the Livery Companies in order of precedence – we are number 95.

At one Livery dinner there was a problem in the kitchen and the meal was late. Basil stood up to say Grace realising everyone was in a hurry to eat so he simply announced: "Grub up – tuck in".

When stocks of the book were exhausted, Past Master Richard Budge and I decided it was so important that we should pay to have it reprinted.

The reprint was produced just in time for Basil's birthday and before his death in October 2004. Demand was brisk and we soon sold enough copies to cover our costs.

I still have several books left in my garage and I hope you'll want to buy one or more as you'll enjoy the handsome volume and it makes a delightful birthday and Christmas present. Past Mistress Kay Macleod has bought no fewer than nine copies

as her friends love the book so much.

Basil was a warm, wonderful and clever man who always took his tasks seriously but never himself.

To order please send an email to andrew.bainbridge1@ outlook.com. Cost is £20 including post and packing and the money goes to the Fuellers Charitable Trust Fund.

Past Master Andrew Bainbridge



RFA Tiderace

My fascination for ships comes from more than twenty years working in the LPG shipping sector, and I jump at any opportunity to "get up close and personal" to one. In early August I was lucky enough to attend the Service of Dedication for RFA Tiderace at Portland, Dorset; the vessel was moored at the somewhat

The dedication ceremony – RFA Tiderace

appropriately named Outer Coaling Pier.

RFA Tiderace is the second of four TIDE Class replenishment tankers, RFA Tidespring having entered service in November 2017 and already operating in support of NATO in the North Atlantic. The TIDE class replenishment tankers will be at the core of the future Maritime Task Group centred around the RN's new aircraft

carriers; in fact, HMS Queen Elizabeth was in Portsmouth at the time RFA Tidespring's Service took place (in rather less clement weather conditions!).

Upon arrival at Portland in glorious sunshine, the guests, who included the Masters Carmen, Cook and Master Mariner together with the ship's sponsor Lady Anita Lister, local dignitaries and guests from the shipping world, were invited on board to chat and mingle on the flight deck before the Service which took place inside the hanger and was conducted by the RFA's Chaplain.

A short reception followed, including a piece of celebratory cake, we were treated to an excellent tour of RFA Tiderace both above and below deck, seeing the refuelling rigs and control room and some great demonstrations.

RFA Tiderace is commanded by Captain Sam Shattock, known to the Fuellers having represented Commodore Duncan Lamb on more than one occasion. He's very proud to have command of the vessel and said that the efforts put in by the first ship's company to get her through her trials and training had laid very solid foundations for a long service future for the vessel.

Master Chloë Andrews-Jones



RFA Tiderace – Replenishment-at-sea equipment

Winston Churchill and the Coal Industry

Were they asked, many would simply know WSC as the magnificent wartime prime minister that he was. However, very, very much more can be attributed to him; one example is the development of the first tank or "landship" in March 1915. Done without Treasury approval.

After the election of January 1910, he had moved to the Home Office, where he threw himself with his usual energy into the task of improving the lot of coal miners. He carried the Mines Accidents Act 1910, to compel provision to be made on mines for appliances for rescue work, first-aid training and so on. The next year he carried the Coal Mines Act, to secure more stringent inspection of mines, precautions against gas and coal dust, and the provision of pit-head baths. The Act also prohibited the employment underground of boys under fourteen years old. But Winston's crowning act of reform was his scheme for Unemployment Insurance, which became law in 1911. He had worked out its details when President of the Board of Trade and, though he had left that office, he assisted the passage of the measure through Parliament.

Past Master John Bainbridge

The Fuellers Charitable Trust Fund

The past few months have been very oriented towards prize giving and fund raising.

All livery companies support one or more schools and in the case of the Fuellers our relationship is with the Platanos Trust which has three schools Platanos College, an academy in Stockwell taking

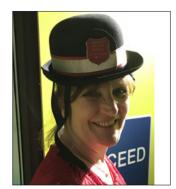
pupils from 11 to 16; Winterbourne Boys Academy in Thornton Heath for boys aged 7 to 11 and Castle Hill Academy in New Addington for pupils aged 3 to 11. Master Chloë Andrews-Jones was the guest speaker and presented the prizes at Winterbourne and Senior Warden Shravan Joshi was the guest speaker at the Platanos



 $The \ Master \ and \ Rear \ Admir \ al \ John \ Kingswell \ CBE \ with \ the \ Wardens \ and \ our \ prize winners \ (Photo: \ Michael \ O'Sullivan \ Photography)$



Jailed and bailed



Under arrest

Academy Prize Giving for 12-14 year olds. The award for the best pupil there is the Harrison Cup, donated by Past Master Jan Harrison and Court Assistant Peter Harrison in 2017.

All livery companies have affiliations with various units of the defence forces which are often relevant to the livery company's trade. In the case of

the Fuellers the units are nearly all concerned with fuel and include the North Irish Regiment, which operates a fleet of fuel tankers and bulk fuel sites, the Defence Strategic Fuels Authority, which purchases fuel for all the services, 10 Squadron RAF which does air-to-air refuelling of the fast jets and the Royal fleet Auxiliary ship Wave Knight, which refuels naval vessels at sea. Each year the Commanding Officers of each affiliated unit nominate a prize winner (often a non-commissioned officer) who has performed well in excess of expectations and they are presented with prizes – often a trophy donated by a Past Master of the Fuellers – and a cheque for £300 from the Charitable Trust to a charity of each prize winner's choice. These presentations were given this year by Rear Admiral John Kingswell CBE, Deputy Commandant of the Royal College of Defence at lunch at Trinity House after the annual Thanksgiving Service at St Olave's Church in the City.

On the fund-raising side of our activities the annual Jail and Bail organised by the Red Cross took place and our Master, Chloë Andrews-Jones was "arrested" for impersonating a police officer and taken to the Tower of London. In order to release her, bail of £1,000 had to be paid to the Red Cross and I am pleased to report that the generosity of individual Fuellers who wanted to help our Master donated not only that amount but an extra £1,511 which benefits the Trust. In addition, regular donations from individual Fuellers over the past three months have amounted to £4,548. Thank you very much!

Communications Group

- Promoting the Company

Our new Comms Group was formed in June by Liveryman David Rose and I, following agreement at the Court and the General Purposes Committee (GPC). Our brief is to improve communications with members and then to promote the Company externally.

Fuellers Kevin Corcoran, Michael Green and Ian Arnold have joined us in rolling up our sleeves to take the agenda forward. We all have communications experience and share a desire to bring all areas of the Company together, as well as increasing awareness of the Fuellers and our brand in the energy industry and in the City and Livery movement.

In a busy two months we have launched the new Fuellers Facebook members' group with regular updates and photos of events and news; a Twitter feed with many Livery, industry and individual followers and revived the LinkedIn Group with news and more industry-based topics. Why not see what you are missing and log in today?

We have also carried out a comms audit and asked for members' help via a short survey to collect views on subjects from The Fueller to communications in general. The response was tremendous - thank you 81 fellow Fuellers! The survey generated many ideas and suggestions that will inform our plans for 2019, including the Royal Year

In this spirit, we would be delighted to chat with you at any event, or email us: comms@ fuellers.co.uk. Find out what we are working on. Share your ideas or views with us. Every opinion is valued!

Junior Warden Elect Carrie Marsh Communications Group



Industry Group

- Update

It has been an exceptionally long hot summer and, like the other Fuellers' committees, the Industry Group members have been enjoying a well-earned break. Nevertheless, the group agreed to get together on the afternoon of Friday 13th July at Skinners. In retrospect, perhaps this was tempting fate. The Chairman's train had been cancelled, but the back-up should still get him to Skinners with just enough time. Then came the news: the power had been cut off at Skinners and the building had been closed! Ever resourceful, the group members had decamped to a local hostelry and had secured a large table. There followed the first meeting of the Industry Group at which beer and wine were served during the meeting. There seemed to be general agreement that the refreshments were preferable to the Skinners' coffee. Perhaps this will become a tradition?

Given the examination season, which is then followed by the long school holidays, this has not been an active period for the work of the group in promoting energy, science, maths and engineering in schools. Nevertheless, we have committed to participating in a further series of lectures at Platanos College, which this year will start in November rather than January and cover a wider range of subjects.

As part of the group's industrial remit, the next Conversation sponsored by EY will be held on15th November and look at electric vehicles. The group is also now focusing on the exciting prospect of organising a Fuellers' conference to be held in November 2019. This is a major undertaking and the group will be seeking assistance from the Company to make this an enormous success.

Court Assistant David Lewis Chairman, Industry Group

First meeting of the group. Chairman Liveryman David Rose, Junior Warden Elect Carrie Marsh, Liveryman Michael Green and Freeman Kevin Corcoran

Sponsorship Committee

- Sponsoring the Royal Year

Progress has been made this year to secure the necessary funding for the five particularly important events which will take place during the Royal Year starting October 2019.

We received early support from UK Power Networks and we would like to thank Court Assistant Basil Scarsella for providing this contribution and also Court Assistant Alan Dowdell for securing sponsorship from EnDCo.

In the highly competitive sponsorship marketplace it seemed appropriate to project the Company to attract the best response from the City, major energy companies and charities.

At our June committee meeting, it was decided that we would produce a video which could be used by all members of the Company to attract sponsorship for the Royal Year and support other initiatives to give the Company an increasing presence in the City as the 'Voice of Energy'.

There has been a great deal of executive time committed to the production of this video (and the membership video) and I would like to thank Freeman Ian Arnold for investing so much time and providing the required level of expertise to ensure that the videos were ready for launch in early September.

Meanwhile discussions and meetings have taken place with EY and the National Grid who have indicated that they want to support the 'Great Events' programme during the Royal Year.

At the time of writing, EY have confirmed that they will sponsor the Royal Installation Dinner which will take place in October 2019 and our discussions with the National Grid are progressing well.

We are currently seeking sponsorship for the Election Court Luncheon to be held in April 2020 and the Charitable Fund-Raising Dinner in support of our Trust (June 2020)

Court Assistant Michael Shirley Chairman, Sponsorship & Donations Committee

Membership Committee

The Membership Committee's purpose is to review all aspects of membership, including recruitment and retention, and to make recommendations to the GPC. We are one of several sub-Committees of the GPC, and we have an ambitious target: to increase membership to 300 subscribing members by the end of 2022. If we achieve this, the Company will be about a third larger than at present.

The Committee held its first "recruitment" event at the Guildhall Club in September; an informal "Meet the Fuellers" gathering featuring an informative Question and Answer presentation by the Master and Senior Warden, followed by a dynamic Membership video created for us by lan Arnold of the Communications Group. These helped to make the evening a great success; we hope to repeat it next year. About 70 people attended, including 50 prospective new members; we hope many of them will become Fuellers.

Every new member brings increasing strength, contacts, skills and diversity to the Company; we see recruitment as essential to the long-term future and encourage all Fuellers to find new members. We work closely with other Committees, for example the Communications Group, to develop new literature. We are also engaging with Energy-related professional institutions, service providers and trade bodies, in the search for new members.

The Committee is reviewing the Company's programme, aiming to improve our "offering" and make membership as attractive as possible. Following a successful survey of members in late 2016 and the recent survey by the Communications Group, we have some useful insights into our very diverse membership, for example many members would like more "Industry content" in the event programme and the Fueller magazine, so we hope to offer this.

Paraphrasing the joining ceremony "The Fuellers are like life, what you get out of membership depends on what you put into it"

Court Assistant Iain Poole Chairman, Membership Committee

Fuellers 16th Annual Golf Day

The Fuellers 2018 Golf Day was held on 3rd September at the magnificent Temple Golf Club, Hurley. The 100-year old club has stunning views of the Thames Valley, and is famous for the Oppenheimer Connection and the American entertainers who have played there.

The course is a classic design by Willie Park Junior, the twotime Open Champion of 1887 and 1889 and one of the world's best golf course architects. This new location for the golf day attracted the largest turnout ever, with 12 teams competing.

In bright sunlight, which lasted all day, the 12 teams of three players each set off early to play the 18-hole, 6,210 yards course, taking about four hours to complete. Fuellers competed for the individual and team prizes alongside teams from the Horners and Carmen Companies and the Oil Industries Club. The day ended with refreshments on the balcony, prizes and an excellent three-course lunch in the clubhouse, all overlooking the course.

Prizes were awarded by the Master, Chloë Andrew-Jones; assisted by the organiser of the event, Liveryman Michael Green, and the official scorer, Past Master Dennis Woods. The Fuellers made a good showing by winning the runners-up and two of the individual player prizes, while guest teams and the Oil Industries Club won best team and best overall player.

One player said afterwards: "It was certainly the best Fuellers' golf day I've attended on a really interesting course", others made similar comments. These events are a great day out for golfers and non-golfers alike and planning for next year's competition is already underway.



David Ingham, Court Assistant Steve Blackwell and Past Master John Ingham

Liveryman Michael Green

TEAM PRIZES

Best Team and winner of the Team Cup

Runner-up Team

INDIVIDUAL PRIZES

Best Fueller Player & Winner of Fuellers Cup Best Overall Player and Overall Winner

Runner-up Player

2nd Runner Up Player

Longest Drive (Player)

Nearest Pin (Player)

The Deery team

Dan Deery Alan Deery Tim Woods

The Three W's Fuellers Team

Russell Warburton Dennis Woods Nigel Woods

Steve Blackwell - Fuellers (Ingham Team)

Dan Deery - Guest (Deery Team)

Nigel Woods - Guest (The Three W's Team)

Murdoch Currie - Guest (ExPex1 Team)

David Whiskerd - Guest (Oil Industries Team)

John Ingham - Fuellers (Ingham Team)

Fuellers at The Ricoh

What a disappointment, the Rugby Double Header being cancelled. No matter, the Master invited Fuellers and guests to The Ricoh Stadium, home to Wasps who were set to play my local premiership team Exeter Chiefs.

Plymouth to Coventry is a mere 220 miles away so we spent Friday night at the Double Tree Hilton, part of the Ricoh Stadium complex. Well done Chloë, bed, good food, beer and rugby all within a very short distance. Our party were meeting in the hotel bar for pre match food and drinks. We arrived early at the bar for a few, alas disaster the bar was shut, due to over zealous health and safety precautions. A leak somewhere closed the bar till 12.30 but then all was well. The close proximity of the bar to the stadium was thus very fortuitous, three of us walked slowly due to incapacities, not the beer.

The excellent stadium afforded a good view of the pitch, therefore no need to stand and block others' view of the action; and what a match it was. Six tries by half time, Wasps scored within the first minute, the action akin to a sevens match. 24 to 21 at half time to the home side. The Master was pleased at least, but the two Chiefs supporters were slightly uneasy. The second half was as thrilling as the first, frenetic

action from the first whistle. Wasps (and England) lost Brad Shields, the flanker, with a broken cheekbone. The game continued with four more tries, one to the Wasps but THREE to the Chiefs, who ran out 42 to 31. Seeing such exciting fast play from English players, bring on 2019 and the Rugby World Cup, let us hope Eddie Jones can recapture his winning ways. It was particularly gratifying since Henry Slade, man of the match, is an old boy from my school.

Commendations to the Master's son Leo and girlfriend Chloë for keeping the Fuellers fuelled with refreshments. We ambled back to the bar after the match to talk about the game, the cricket and old times. We had an excellent day and would like to thank everyone involved in its organisation.





The Ricoh Arena (Picture courtesy of www.ricoharena.com)



Santiago Cordero goes over for his first try for Exeter Chiefs. (Image copyright Steve Bond/PPAUK)

FORTHCOMING EVENTS

Full details and timings of functions and events are circulated by the Clerk and are available on the website.

Your attention is drawn in particular to the following:

October

Tuesday 16th Installation Dinner. Skinners' Hall

Wednesday 17th Musicians Company Evensong. St. Paul's

November

Sunday 4th Fuellers Sunday. St Bartholomew the Great

Saturday 10th The Lord Mayor's Show

Sunday 11th Remembrance Sunday - Commemoration of WW1 armistice

Thursday 15th Fuellers' Conversation. Electric Vehicles Network

Wednesday 21st Festival of St. Cecilia. St. Paul's

December

Monday 10th Carol Service. St. James Garlickhythe Supper at The Counting House

January 2019

Wednesday 16th New Year Court Dinner. Innholders' Hall. Court only

Thursday 24th Industry visit to National Grid

February

w/c 19th Fuellers' Conversation. Oil Companies investing in Power Assets

March

Wednesday 13th Industry visit to Siemens Museum, Docklands

April

Wednesday 24th Election Luncheon. Mercers' Hall

June

Thursday 20th Mid-Summer Dinner. Charterhouse

July

Monday 22nd Affiliates Lunch. Trinity House

October

Thursday 24th Installation Dinner. Mansion House

Our photographer, Michael O'Sullivan, makes his photographs available for purchase on his website www.michaelosullivanphotography.co.uk For earlier events follow "Online Gallery" or "Livery Companies".

The Fueller is available as a PDF. If you would prefer to receive it in that form rather than as hard copy please contact the editor on editor@fuellers.co.uk

Do take a look at our Website, LinkedIn and Facebook Groups, and the Twitter feed. Their style will evolve and be informed by your feedback.



f Facebook



@WCoFuellers



Website



in LinkedIn

The Company has the following items for sale – the prices are inclusive of post & packing and VAT.

Bronze Desk Crest	£75.00	Cufflinks	£30.00
"Leadership in Energy" – the life and work		Lapel Badge	£10.00
of Lord Ezra of Horsham	£5.00	Bar Brooch	£10.00
"The Fueller's Tale" - the History of the Fuellers	£27.50	Silk Neck Scarf	£21.00
Woven silk striped tie	£21.00	Fuellers Wall Plaque	£37.50
Blue or Green Silk Tie	£21.00	Golf Umbrella	£23.00
Pink Silk Tie (Fuellers' XV)	£21.00	Fine China Coffee Mug with Company Crest	£9.00

Please order from the Members' area of the website, where pictures of and up to date information on all items for sale may be found: www.fuellers.co.uk

