



The Worshipful Company of
Scientific Instrument Makers

A review of 2016/2017

Moving forward, giving back

What's inside

The Master's Report	2
Autumn 2016	4
Winter 2016/17	5
Spring 2017	6
Summer 2017	7
Court and Committees	8
Committee achievements	10
New members	12
Seeking your views	13
Senior and Junior Wardens Elect	14
Master Elect	15
Calendar of events for 2017/18	16

The Master's Report

It has been a wonderful journey - full of historic buildings, pageantry and lots of fun.



It was a busy year but a very rewarding one and it was an absolute privilege to represent the livery as Master. A huge 'thank you' to all those who have supported me during the past 12 months.

The Company has seen some progress during my year. I reached out to three organisations to develop a closer relationship:

- After several visits, receptions and meetings to the Science Museum, we have been asked to nominate some of our young members to take part in the formation of a new Scientific Instrument Gallery due to open in June 2019. We have 10 volunteers who would like to be a part of this venture and soon there will be a focus meeting to kick things off. There will be further opportunities to work closer together with the Science Museum.
- I have also worked with GAMBICA and the Institute for Measurement and Control to form an overarching agreement to allow the three organisations to share events, website entries and generally work more closely together. We jointly manned a stand at the Sensors and Instrumentation Show at the NEC on 26-27 September 2017, showing a united front. We are also working closely on the Festival of Measurement which will begin with IMEKO in Belfast, September 2018 and will continue to cover the 'New SI inauguration' in May 2019 at the Science Museum and finishing with the opening of the new Scientific Instrument Gallery, also at the Science Museum in June 2019.

- We are considering combining the Scientific Instrument Society's annual 'Medal' lecture with our Minerva lecture. This would boost the attendance, both for the lecture and the dinner afterwards. We are also looking at holding their annual 'Scientific Instrument Fair' in our Hall. The fair encourages instrument specialists from around the world to set up a stall and trade for a day or a weekend. It is self-financing and there are spin-off benefits to both organisations.

Recruitment has been very successful during the year, with no fewer than 10 new Liverymen, 17 new Freeman and eight new Apprentices. The newly-formed Strategic Review Committee is now finding ways to put the findings of recently-undertaken member surveys into practice.

My SIMposium, held in the Hall on 3 July, was a great success. We had nine Scholars and Freeman presenting their work in two sessions during the day, allowing time for networking. We finished with two academic lectures on Gravitational Waves, one dealing with instrumentation and the other the physics involved.

We have been honoured with some excellent speakers during the year:

Sir Paul Nurse, Honorary Freeman and Noble Laureate, spoke at the Admissions Court Dinner in October 2016, and brought us up to date with the progress at the Crick Institute of which he is the Chief Executive.



Alderman Dame Fiona Woolf CBE addressing us at our annual banquet

Professor Dame Kay Davies joined us for the February Court Dinner and spoke about Genetics and the hope of finding cures for Duchene Muscular Dystrophy.

The Duke of York came to the Educational Trust Supper in February, which created great excitement. Five Apprentices presented their work to the Duke.

Alderman Dame Fiona Woolf CBE was our principal guest at our annual banquet in Stationers' Hall. She gave an excellent speech on her work within the scientific field and how we work together to support the Science Museum.

The Four Liveries Lecture saw the Astronomer Royal Lord Martin Rees speak about the way that scientific instruments are helping to push back the boundaries of space.

The Edwards' Lecture invited Carlo Rubbia, (another Nobel Laureate) to speak on the subject of the importance of elementary particle accelerators.

One sad occasion was to attend Past Master David Smith's funeral in Bishop Stortford. David was Master when I joined the Livery. He was my mentor and friend; I shall miss him.

My committee work has been full on, as I chaired four committees. I will report on these separately but I am pleased with the way the Livery is going and the plans being formed for the future.

In addition to our own livery calendar and the committee work, my role as Master for the year has included a total of eight banquets, 15 formal dinners, 12 receptions and four church services. The highlights were many, but those that rise above the rest include:

- The Lord Mayor's Parade which saw Chris and me being lowered into our two cutters in the early hours and in the pouring rain and then being rowed up the Thames following the Lord Mayor. We were rowed up to Tower Bridge by two brave and excellent crews, made up of Livery members plus a few guests.
- An evening with the Southwark Sea Cadets who were out in the Royal Docks. They were demonstrating their skills which, I have to say, were very impressive. They have been well trained. The evening ended with an award ceremony.
- Lunch at the Old Bailey with the Judges was very memorable. I sat next to Justice Topolski who specialised in terrorism.
- A garden party at Buckingham Palace was an unforgettable occasion, mingling with the other 7,000 people there. Surprisingly I managed to recognise three other Masters during the afternoon.
- The Ironbridge weekend: there are 110 Livery Companies in the City and, apart from getting to know other Masters during our year, we all get together with our partners for a weekend at Ironbridge in Shropshire, where the Industrial Revolution began. The weekend had many organised visits as well as a formal dinner and a ball. This year's group will be known as the 'Prime Masters' (the best group yet), representing the Livery Masters for 2016/2017. The consorts decided to call their group the Prime Movers.

A fantastic and extremely rewarding year; it's now time to think about my ever-expanding waistline!

*John Caunt
Master*

A summary of the year, season by season

Autumn 2016

The first event of the new livery year was the admission on October 20 of the new Master John Caunt, the new Senior Warden Professor Ron Summers, and the new new Junior Warden Ken Sanders. We also welcomed two new Liverymen, three new Freeman and three Apprentices to the Company. This was followed, as usual, by the Admission Court Dinner where Honorary Freeman and Chief Executive of the Francis Crick Institute, Sir Paul Nurse, was our principal guest. He told the audience all about the Francis Crick Institute - the largest biomedical research centre in the world. Christopher Sawyer, the new Deputy Master presented the 2016 military awards as well as the 2016 post-graduate scholarships.

A few days later, the annual Arkwright Engineering Scholarships award ceremony took place at the Institution of Engineering and Technology in Savoy Place. We sponsored four scholarships which went to: Will Davidson, King's College School; Sam Dixon, Judd School; Tsemaye Uwejamomere, Dartford Grammar School; Anastasia Yukunina, Highgate School. Will, Sam and Tsemaye have since joined the Company as Apprentices.

In the same week the mentoring programme for the 2016/2017 Young Engineer for Britain kicked off. This is an initiative designed to help students who have an idea for an engineering product to start their own successful companies. It's a competition that is sponsored by SIM and to date has been jointly run by Young Engineers, the National Physical Laboratory (NPL) and us.

In early November, we held the first of our prospective new members' evenings in the River Room. The other two were both held in March, in



Zaibaa Patel from City University receives her SIM Scholar award from Deputy Master Christopher Sawyer

Oxford and in London at the Reform Club. These are informal events where those interested in finding out more about our Company, and also the livery world, can chat to members and find out the benefits of joining SIM.

On the morning of the Lord Mayor's Show on November 12, our two cutters took part in the Lord Mayor's flotilla, carrying the Master and his Lady through Tower Bridge to St Katharine Docks, in the pouring rain. The Master and Junior Warden then walked the three miles of the procession route, in full regalia (also in the pouring rain).

A total of 75 members, wives of members and guests attended the annual ladies' luncheon. This year, a tour of the House of Lords was organised, followed by tea in the River Room overlooking the Thames. Baroness Brenda Dean was the official host and she gave an informative and interesting talk on the workings of the House of Lords.

There was a second trip to the House of Lords in November: this time a meeting of the All Party Parliamentary Engineering Group, held over lunch. Apprentice Warden Ken Sanders had the chance to take six of our Apprentices and Freeman to the event. The topic was 'Decarbonisation of our Energy Systems'.

Winter 2016



The Technical Liaison Group enjoyed a wonderful private tour of the Science Museum in December

On December 8, the Technical Liaison Group organised a private tour of the Science Museum. The visit was an excellent opportunity to be shown around some of the museum's special exhibitions. The afternoon began in 'Mapping Ingenuity', which explored the way that various areas of London have played different parts in the trade of scientific instrument making.

Following this, the group visited the 'Big Data' exhibition in the main part of the museum, where everyone gained a fascinating insight into how everything from search data to Oyster Card 'touches in and out' can be used to learn about the patterns and moods that people follow. The final stop on the tour was the new Science Museum library in the Dana Centre, which houses a small but nonetheless intriguing portion of the museum's literature collection.

Our annual carol service was held jointly with Coleman Street and Broad Street Ward Clubs on December 14 at St Margaret Lothbury. As usual, the service was led by the Reverend Prebendary Jeremy Crossley and the music was led by our Director of Music, Richard Townend. Drinks and canapés were served afterwards, giving us a chance to chat to our own members and to those from the two Ward Clubs.

In early February, we held a livery dinner in the River Room which was attended by 75 members and their guests. The principal guest and speaker was Professor Dame Kay Davies, CBE, FRS. Professor Davies is the Dr Lee's Professor of Anatomy; Director MRC Functional Genomics Unit; Associate Head (Development, Impact and Equality) of the Medical Sciences Division and a Fellow of Hertford College. She researches the molecular analysis of human genetic disease, particularly the genetic basis of neuromuscular and neurological disorders. Professor Davies told us that genomics is having a major impact in guiding diagnosis and treatment of many disorders. She went on to say that DNA sequencing of patients with rare diseases is revealing novel druggable pathways for more common disorders such as diabetes, autism and Alzheimer's disease. The era of genomic medicine has clearly arrived.



HRH The Duke of York chats to some of our younger members at the Education Trust Supper

Every year we hold an Education Trust Supper for our Apprentices, Scholars and young Freemen. Also invited to this event are our Apprentice Masters and our University contacts. This year we were honoured to have as our principal guest, HRH The Duke of York, a keen supporter of technology and engineering. He met our younger members informally before the meal and also had the opportunity to hear short presentations from five of our younger members; Lucy Hogarth, Tom Heywood, Jordan Griffith, Matthew Orford and Brad Stalker.

Spring 2017

Finlay Cuffe from Sutton Grammar School and Shahab Fazal from Loreto Sixth Form College in Manchester were both named as WCSIM Young Engineer of the Year 2017 at the Big Bang Fair at the NEC in March. Finlay's project was a Thermoelectric Cooling Cloud Chamber and Shahab's was a Piezoelectric Sensitive Matrix Array.

As in previous years, we then sponsored these two students by giving them an all-expenses-paid trip to the USA to attend the Intel-sponsored International Science and Engineering Fair 2017 (ISEF) which this year was held in Los Angeles in May. In the two months prior to leaving for the USA, the National Physical Laboratory (NPL) in Teddington mentored the two students, helping them to fine tune their entries and their presentational skills in preparation for the major international competition. Finlay Cuffe succeeded in winning a prestigious third place award at ISEF, which this year attracted 1,778 students from 78 countries.

The Master said: "We were delighted to sponsor Finlay and Shahab who were two out of only three British students to attend ISEF and especially pleased that Finlay won a prize. This prestigious event attracts entries from all over the world, and winners in the various categories are rewarded by top prizes and recognition. All this helps, of course, with future job prospects and develops our entrepreneurs of the future." Both Finlay and Shahab have since joined the Company as Apprentices.

On the day of the Boat Race our two cutters, Gordon Hall and George Williams II, both took part in the Oxbridge Watermen's Challenge on the river at Putney, preceding the main Oxford and Cambridge races. Congratulations to our men's cutter team who, after winning the Oxbridge Watermen's Challenge in both 2015 and 2016, succeeded in making it three wins in a row.

Every year City University holds the Edwards' Lecture in memory of Professor F D Edwards who was a physicist at the university and a Past Master of SIM. This year the lecture (the 43rd in



Shahab Fazal (left) and Finlay Cuffe (right) with Apprentice Warden Ken Sanders at the Big Bang Fair at the NEC

the series) was given by Professor Carlo Rubbia on the subject of particle accelerators.

At the end of April we were one of the sponsors at the British Physics Olympiad (BPhO). This initiative works to encourage the study of physics and recognise excellence in young physicists. There are five competitions organised through two strands: Physics Challenge (GCSE), AS Challenge, A2 Challenge, British Physics Olympiad, Individual Experimental Project. We award a prize to the Individual Experimental Project and this year it went to Robbie King from King's College School, Wimbledon. Robbie went on to represent the UK in the International Physics Olympiad in Indonesia where his project won gold. Many congratulations to Robbie who will join the Company as an Apprentice in the autumn.

Summer 2017



Upper: The Master's weekend was held in Oxford

Lower: Our annual banquet at Stationers' Hall

Our annual banquet was on June 20 in the delightful surroundings of Stationers' Hall, near St Paul's Cathedral. It was a very warm evening, so all 156 Company members and guests were able to enjoy a champagne reception in the shade of the Hall's courtyard garden before being piped into dinner by the Southwark Sea Cadets who formed a carpet guard. Our principal guest was Alderman Dame Fiona Woolf CBE who was Lord Mayor in 2013-14. One of her many current roles is as a Trustee of the Science Museum Group.

This year, our annual Four Liveries Lecture was organised by the Worshipful Company of Clockmakers. We were all honoured to have the Astronomer Royal, Baron Rees of Ludlow, as the guest speaker. The subject of his talk was how precision instruments have expanded our knowledge of the universe. It was entitled, "From planets to galaxies: how precision measurements have expanded cosmic horizons".

The Master arranged a SIMposium in the Hall in early July 2017, to which all Liverymen, Freemen, Scholars and Apprentices and their guests were invited. Alderman and Sherriff Peter Estlin gave an opening address and this was followed by 11 short presentations, given by Freemen and Scholars and also one of our Apprentices. The two keynote speakers were Dr Daniel Hollington, a member of the High Energy Physics Group at Imperial College, London, and Professor Ilya Mandel, a member of the School of Physics and Astronomy, University of Birmingham. Dr Hollington spoke on Laser Interferometer Space Antenna (LISA) and the first Gravitational Wave Observatory in Space. Professor Ilya Mandel spoke on gravitational waves.

In July the Court assembled in the Armourers' Hall near London Wall to welcome our largest group of Apprentices, Freemen and Liverymen to the company. There were 19 in total, including a father and son (a first for our Company). This was followed by an enjoyable lunch where we were surrounded by splendid suits of armour and fearsome-looking spears.

Also in July, we published the second volume of our company history. It spans the 25 years from 1989 to 2014. Many thanks to Past Master Keith Etherington, to Liveryman and Honorary Almoner Diane Howse and to David Henshaw for all their efforts in compiling the book.

The Master's weekend was held in Oxford in mid-September which was attended by 60 members and their guests. The three-day event included one of Assistant Martyn Wheatley's famous 'lion' tours, as well as a tour by an Oxford guide of places not normally visited by tourists, and a visit to nearby Brightwell Vineyard, owned by Liveryman Bob Nielsen. Dinner on the first night was at the Cherwell Boathouse where there was plenty of entertainment laid on: a jazz trio, a ukelele band, a member of the Magic Circle and a silhouette artist. On the Saturday, there was a formal dinner in Harris Manchester College where Roger Royle, the Lord Mayor's Chaplain and a fellow of the College, delivered one of his amusing speeches. The Master had also put together a special day's programme on the Saturday for our younger members of the Company.

Membership of Court and Committees 2016-17



Court of Assistants

Master	Mr John Caunt
Deputy Master	Mr Christopher Sawyer
Senior Warden	Professor Ron Summers
Junior Warden	Mr Ken Sanders
Senior Past Master	Dr Ken Reay
Past Masters	Dr David Townsley-Hughes Captain Guy Brocklebank, RN Mr David Smith (deceased June 2017) Mr Harry Tee, CBE Mr Brian Fishwick Mr Keith Etherington Eur Ing David Kent Professor Tony Wilson
Assistants	Professor Ken Grattan Mr Martyn Wheatley Mr Charles Holroyd Mr Aubrey Dunford Professor Philip Thomas Mr Jim Webster
Honorary Assistants*	Mr Gordon Hall Mr David Wallis Mr William Lyons Sir Ivor Cohen CBE TD Professor Ray Hills Dr Richard Hartley Mr Brian Lowings * all Past Master Emeritus
Clerk	Mr Neville Watson
Assistant to the Clerk	Ms Carole Seawert
Honorary Chaplain	Rev'd Prebendary Jeremy Crossley
Hon. Dir. of Music	Mr Richard Townend
Honorary Solicitor	Mr Roger Seaton
The Beadle	Mr Anthony Parker

Committees and listings

Finance and General Purposes Committee

Master	Mr John Caunt
Deputy Master	Mr Christopher Sawyer
Senior Warden	Professor Ron Summers
Junior Warden	Mr Ken Sanders Mr Brian Fishwick, Honorary Treasurer Captain Guy Brocklebank, RN Dr Ken Reay
Clerk	Mr Neville Watson

Charitable and Educational Trust

Master	Mr John Caunt
Deputy Master	Mr Christopher Sawyer
Senior Warden	Professor Ron Summers
Junior Warden	Mr Ken Sanders Mr Brian Fishwick, Honorary Treasurer Captain Guy Brocklebank, RN Mr Aubrey Dunford Mr David Lazenby
Secretary	Mr Neville Watson

Education Committee

Chairman	Professor Ron Summers Mr Ken Sanders Mr Colin Clifton Mr Robert Seaman Mr Raul Abreu Professor Sanowar Khan Professor Simon Hall
Ex Officio	Mr John Caunt
Clerk	Mr Neville Watson



SIM Hall Board

Chairman	Mr Christopher Sawyer
	Mr Keith Etherington
	Mr Brian Fishwick, Honorary Treasurer
	Mr Ken Sanders
	Dr Ken Reay
	Mr John Caunt
	Professor Ron Summers
Secretary	Neville Watson

Professional Committee

Chairman	Mr Shelley Charik
	Mr John Caunt
	Mr Colin Clifton
	Mr Steve Kew
	Dr Stuart Pollitt
	Ms Carole Seawert
	Professor Ron Summers
	Mr Jim Webster
Clerk	Dr Mike Windram
	Mr Neville Watson
	The Master and Wardens
Ex Officio	

Strategic Review Committee

Chairman	Mr John Caunt
	Mr Shelley Charik
	Mr Brian Fishwick
	Mr Stephen Kew
	Mr Ken Sanders
	Ms Carole Seawert
	Professor Ron Summers
	Mr Neville Watson

Glaziers' Hall Board

Dr Ken Reay*
 Mr Keith Etherington*
 * alternate Mr Brian Fishwick

Senior Stewards

Mr E C Buckland, Senior Steward
 Emeritus
 Dr Lyndon Davies
 Mr Rodney Murton

Stewards

Mr John Comer, Master's Steward
 Mr Raul Abreu, Senior Warden's
 Steward
 Mr Colin Clifton, Junior Warden's
 Steward
 Ms Elisabeth Cohen
 Mr Ron Craven
 Mr Neil Gammon
 Professor Simon Hall
 Mr Martyn Hunter-Wyatt
 Mr Kenneth Lambert
 Dr Ian Lewis
 Ms Joanna Migdal (Lady White)
 Dr Graeme Philp
 Dr Stuart Pollitt
 Mr Martin Sharrocks
 Dr David Spencer
 Mr Brian Sowter
 Mr Stuart Walton
 Dr Mike Windram

Appointments

Apprentice Warden	Mr Ken Sanders
Barge Master	Captain Guy Brocklebank, RN
Honorary Treasurer	Mr Brian Fishwick
Honorary Almoner	Ms Diane Howse
IILG Convenor	Mr Shelley Charik
Livery Schools Link	Professor Ron Summers
Tech. Liaison Group	Mr Raul Abreu
Web Master	Mr Alex Peters

These appointments were for three years with effect from October 2014.

Achievements of the Committees

Here's a summary showing what our six committees have achieved over the past twelve months.

Finance & General Purpose Committee (F&GP)

The F&GP Committee is held quarterly and its function is to manage the business of the livery and guide the Court on financial and policy issues. During the year they considered and approved the applications of nine Liverymen and 13 Freemen for membership to the Livery.

They considered and approved the SIM Ltd annual accounts for the year 2015-16 and set the budgets for the year 2016-17. They also recommended to the Court the Non Court appointments to cover the years 2017 to 2020 and agreed the next Master's Calendar.

The SIM Petition for consideration of a Royal Charter was submitted to the Court of Aldermen. If approved, our Petition will be sent to the Privy Council who will set up a subcommittee for examination. If they approve, it is returned to the Privy Council and, once satisfied, they will recommend it to Her Majesty the Queen that the 'Great Seal' be affixed. We are then invited to the Crown Office to collect the Charter following which we will arrange for a celebration. More to be announced.

John Caunt, Master

Charitable and Educational Trust

SIM's Trust was funded by the founders of the company and has benefited from regular donations from liverymen and some substantial legacy gifts. Our fund now stands at over £3M. The Trust oversees the investment of our funds, they also oversee the spending of the income from the Trust. During the year they approved the following requests:

Veterans Aid - £500; Sheriffs' and Recorder's Fund - £250; 'Kids Invent Stuff' appeal - £250; The Judd School Spitfire Racing Project - £500; The Kirkcaldy Museum - £500.

They recommended to the Court that the accounts for the year 2015-16, and the budgets for the year 2016-2017, and they carried out an extensive and ongoing review of our charitable giving. It was agreed to increase our annual donation to the Lord Mayors Trust to £1,000 and to St Margaret Lothbury again to £1,000.

John Caunt, Master

SIM Hall Board

Following discussions with representatives of the three liveries and as discussed by Keith Etherington and me at the May Court Meeting, the further development of Glaziers' Hall is progressing and the new riverside rooms, foyer, entrance hall and external windows were completed at the end of September. The basement area will be ready for December.

This will provide an increase of some 33% of lettable space. We also took the opportunity of carrying out some works that are more cost effective to do now, rather than in the next three to five years.

The estimated cost of building works is circa £2m, £1.75 is being provided by our bank by way of a competitive 15 year loan, with the remainder from our own funds. The revenue is expected to grow by some 75% with the profit at a greater rate, resulting in the loan being repaid within eight years.

Current trading is much as expected which, due to the disruption of building works and the unexpected terrorist attack, means our profitability was reduced by half for the year ending 30 September 2017.

Looking forward, we are showing a 20% increase in our order book compared to the same period last year, indicating albeit at an early stage, that the projections are trending as planned.

We hope you will all visit your hall soon and see the improvements. Lastly may I thank Samantha Enstone and her team who have been working under very challenging conditions and wish them every success in this new venture, and wish our Clerk's office a successful and happy return at the end of October.

Christopher Sawyer, Deputy Master

Education Committee (EdCom)

EdCom meets four times per year. Its business is undertaken using a standing agenda that reflects the almost £80,000 disbursement SIM makes each year for educational purposes. At most EdCom meetings extra agenda items are also considered. SIM has supported individuals and groups through a full range of ages and educational attainment - from STEM activities with schoolchildren about to choose their GCSE subjects,

sponsorship of the British Physics Olympiad event, through to the award of the individual postgraduate Beloe Fellowship. A further highlight of the year is SIM's involvement in the national Big Bang Fair and our sponsorship and judging for the Young Engineer of the Year.

The investment made in our young people has met with great success in 2017. The team chosen to represent the UK at the International Physics Olympiad in Indonesia won several gold, silver and bronze medals. Our soon-to-be apprentice, Robbie King, who picked up an individual award for experimental physics in the UK event, was one of those who achieved a gold medal. Finlay Cuffe, WCSIM's Young Engineer of the Year 2017, achieved a third place at the International Science and Engineering Fair (ISEF) held in Los Angeles. EdCom also makes a direct contribution to two local schools: at the City of London Academy in Southwark support given is in the form of two individual science prizes; at the London Nautical School, a donation is given for its Science Department to disburse at its discretion.

The Master held a very successful SIMposium that benefited all who attended, and planning SIM involvement in the triennial IMEKO World Congress, to be held in Belfast (3 - 6 September 2018), was agreed. Finally, the education-based aspects of the results from the sample survey of our company membership were considered and appropriate recommendations made to continue to foster and communicate the work of the committee.

Professor Ron Summers, Senior Warden

Strategic Review Committee (SRC)

Since the Committee started work in April 2017 it has held four meetings up to the end of my year, and we have achieved the following:

- There is now a Mission Statement and a Purpose Statement
- We have consulted the livery at all levels
- We have identified the needs of each group and prioritised the findings of each survey
- Strategic objectives are being developed, with timescales, for the Livery to work towards as a systematic improvement process.
- Wardens are being allocated to specific tasks and they will develop working parties taken from the membership to complete those tasks.

We have also

- Improved our recruitment levels
- Started work on creating an improved member database
- Appointed new Freeman/Scholar and Apprentice Wardens. More Wardens are to be appointed
- Improved the engagement levels of our membership, particularly of new members

We aim to modernise the operational capabilities of the livery and improve the management processes. We also aim to establish a new vibrancy in all activities of the livery and improvements in satisfaction measures of members.

John Caunt, Master

Professional Committee (PC)

The PC's mission is to raise our professional profile and improve our image within the instrumentation industry, to increase our membership and generally build for the future.

The PC held its first meeting in June 2014 chaired by John Caunt. In September 2016 Shelley Charik took over the chair. Shelley continues to act as Convener of the Instrumentation Industry Liaison Group, to address that part of the PC's remit.

John continues to organise recruitment evenings, which he had instituted to fulfil that part of the PC's remit. These have been very successful. A sub-committee was established under Steve Kew to review our membership database and ensure that service to members met the needs expressed in the Focus Group consultation exercise carried out in 2015.

In September 2016, at the request of the newly formed Strategic Review Committee, the PC carried out an opinion survey of liverymen, in parallel with a survey of freemen and apprentices that was undertaken by the Education Committee. This was the most time-consuming activity during the year. A report of the survey of liverymen was presented to the Strategic Review Committee in April 2017.

In August 2017 an Information Technology Warden was proposed to take over the work of Steve Kew's sub-committee. Shelley Charik and Ron Summers have begun a review of the livery's relationship with the instrumentation industry.

The Committee was saddened by the death of member Professor Keith Guy during the year.

Shelley Charik, Liveryman

New members

A full listing of members and their profiles is available on the website. If you do not have your login details, contact the Assistant to the Clerk.



New Liverymen

Mr Oliver Blackwell
Mr Benjamin Fernando
Professor Gerard Fernando
Dr Kevin Gallagher
Ms Jessica Leigh Jones
Professor Stephen Keevil
Mr Robert Nielsen
Mr Anthony 'Andy' Owler
Mr Jonathan Stuart
Professor John Tyrer

New Freeman

Ms Anna Apsit
Mr Clark Baker
Mr James Bezer
Mr Andrew Cooper
Mr Thomas Davis
Ms Bethan Doyle
Mr Feiyu Fang
Mr James Forsey
Mr Thomas Heywood
Mr George Holdaway
Mr Mehdi Sina Lari
Mr Nicholas Slack
Ms Kenza Tazi
Mr Thomas Waite
Mr Samuel Wheelhouse
Mr Daniel Williams
Ms Emma Wills

2017 SIM Scholars

Mr Alberto Bonifacio, City University
Mr Mark Buckwell, UCL
Mr Rory Evans, Oxford University
Mr Thomas James, Imperial College
Mr James Watson, Manchester University

2017 SIM Cohen Award Scholars

Ms Chiaki Crews, UCL
Ms Hien Nguyen, City University

Beloe Fellow 2016/17

Dr Liam Marsh, Manchester University

New Apprentices

Mr Benjamin Ball, Young Engineer
Mr Finlay Cuffe, Young Engineer
Mr Will Davison, Arkwright Scholar
Mr Samuel Dixon, Arkwright Scholar
Mr Shahab Fazal, Young Engineer
Mr Michael Gucluer, Young Engineer
Ms Alice Mitchell, Young Engineer
Ms Tsemaye Uwejamomere, Arkwright Scholar

In Memoriam

With great regret we reported the deaths of the following members:

Liveryman Peter Styles, MBE on 15 October 2016
Liveryman Keith Guy on 1 November 2016
Liveryman Robin Cole, OBE on 16 February 2017
Liveryman Gordon Eadie on 16 June 2017
Past Master David Smith on 20 June 2017
Liveryman Stuart (Steve) Freeman on 15 July 2017



Above: We welcomed a record number of 19 new Liverymen, Freeman and Apprentices in July

Upper right: Our four proud Arkwright Scholars

Lower right: A visit to Brightwell Vineyard during the Livery Weekend



Seeking your views

Over the past year we have undertaken three separate member surveys: one with Liverymen, one with Freeman and Scholars, and one with Apprentices, to seek people's views about their membership of the company and to find out where improvements can be made.

The Liveryman survey was a telephone consultation carried out by Professional Committee members, commissioned by the Strategic Review Committee. The key finding of this consultation exercise was that the most important single reason why people join SIM is so they can 'give something back' to their industry, and many more would like to do so if only they were made more aware of the opportunities offered by the Company. The breadth of expertise available in the Company was considered a great strength which must be properly recorded and used.

The surveys aimed at our younger members took the form of online questionnaires. One of the findings of the Freeman and Scholar survey was that they would like SIM to introduce a Warden responsible for these two groups. They also suggested that having a one-to-one mentor

would be a good idea - this would work in a similar way to our current Apprentice Master scheme. The majority of Apprentices asked for more involvement with the Company and asked for a more structured contact plan.

All the younger groups were agreed that SIM should hold more informal events and arrange more organised trips to technology companies. Freeman and Scholars wanted more evening events and Apprentices asked for weekend events.

Our two key areas that we will be working on in the coming year are to see how we can deliver the wishes of our younger members and to improve the engagement of our Liverymen.

Our Senior and Junior Wardens Elect

A brief introduction



Ken Sanders



Professor Ken Grattan

Ken Sanders Senior Warden Elect

Ken Sanders enrolled in the Livery in 2012, and was Apprentice Warden from 2013 to 2017. A retired engineer, he has spent an entire career in the semiconductor industry.

After graduating in 1967 with an Honours Degree in Physics from Queen Mary College, London and a four-year spell at Marconi's research labs, he joined Texas Instruments as a QA Engineer, becoming Managing Director in 1987. Ken stood down from this role in 1995 to lead a management buyout of the Power Semiconductor Business from TI, becoming MD of the new company, Power Innovations Ltd. In 2000, PIL was acquired by Bourns Inc, a Californian company, for which Ken led the strategic planning process to integrate PIL into a world-wide division specialising in telecoms circuit protection components. He resigned from this role in 2002.

Other roles Ken has held include Senior Non Executive Director of MicroEmissive Displays; Director of the Bedfordshire Training and Enterprise Council; Board Member of the British Quality Foundation, Chairman of the UK Semiconductor Manufacturers' Association and Board Member of Intellect (the UK electronics and IT trade association).

In 1993 Ken was awarded an Honorary Doctor of Science from De Montfort University and was elected a Companion of the British Institute of Management. A former trustee of Young Engineers, he was its Chairman from 2005-12.

Ken is married with two daughters and two granddaughters. When the opportunity arises he enjoys a day's fishing.

Professor Ken Grattan Junior Warden

Ken Grattan is the Royal Academy of Engineering-George Daniels Professor of Scientific Instrumentation at City, University of London which he joined as a lecturer in 1983. Since then he has served in several roles including Dean of both the School of Engineering & Mathematical Sciences and the City Graduate School. He graduated in Physics from Queen's University Belfast, followed by a PhD in Laser Physics and then became a Research Fellow at Imperial College.

Ken's research interests have been in laser and optics. He has published widely and holds several patents for instrumentation systems for monitoring in industry using optical techniques.

He has been Chairman of the Science, Education and Technology of the Institution of Electrical Engineers (now IET), the Applied Optics Division of the Institute of Physics and he was President of the Institute of Measurement and Control in 2000 and has served on their Councils. He was elected to the Royal Academy of Engineering in 2008 and President of the International Measurement Confederation (IMEKO) in 2015.

Further, he was Deputy Editor of the journal Measurement Science and Technology for several years and is Editor of the IMEKO Journal "Measurement". He is Visiting Professor at several overseas Universities with strong links to the Shandong Academy of Sciences in Jinan, China.

Ken and his wife Lesley live in Ickenham, Middlesex and enjoy travelling together when the opportunity allows.

The Master Elect's Statement

Master Elect Professor Ron Summers looks ahead to his year in office



I am both honoured and humbled to be the next Master of SIM. Plans for my year are cognisant of the results of the recent sample survey of the SIM membership: many members expressed a desire 'to give something back'. Although exactly what to give back was largely unspecified, it is one of my goals to help SIM create an environment in which several levels of engagement are possible, with individual members pursuing opportunities as they arise. In the next 12 months there are a number of planned events that may tantalise the scientific appetite. Firstly, the SIMposium in April will bring together our young people to present their own scientific ideas for critical acclaim by their peers and experienced practitioners alike.

In May the Minerva lecture will be given by the former Gresham Professor of Physic, William Ayling, whose subject will investigate the use and abuse of the eye. We will host a 'Women in Engineering' event in June 2018 which will enable younger female schoolchildren to meet with role models at a time when their choice of GCSEs is fast approaching. The goal, of course, is to attract more women into engineering and science.

SIM has also agreed to support the IMEKO World Congress in September 2018; there are opportunities here for individuals to register as conference delegates or for organisations to showcase their work in the accompanying exhibition. In fact this event initiates the 'Festival of Measurement' which will see SIM, the Institute of Measurement and Control, and GAMBICA (trade association) join together to foster the role that measurement plays in everyday life. The Festival has two proposed end-points: on World

Metrology Day in 2019 (20 May) the definition of SI units will see their first major upheaval since their inception in the 1870s (though some units of measurement were not defined and adopted until much later); and in the following week the Science Museum has been approached to host an evening event to further publicise the change.

Opportunities to socialise will continue at our banquet, dinners, lunches and the Master's weekend. This year the latter will take place in Falmouth over three nights from Friday 11 to Monday 14 May.

SIM can be rightly proud of its heritage and legacy while at the same time gaining credit for remaining purposeful and relevant in the 21st century. To this end I aim to continue the work on recruitment and strategy initiated by the current Master, John Caunt. I also look forward to working with the Wardens - Mr Ken Sanders as Senior Warden and Professor Ken Grattan as the Junior Warden. My theme for the year is 'signals and systems', two so-called weasel words that each have a wide interpretation; this is intentional. As a tease, to find out more about the origin of my theme and how it interacts with life of the livery you will need to read the weekly blog that will be available on the SIM website throughout my year as Master.

I wish you every success in your personal endeavours throughout the year, and would be delighted to receive feedback about how I can make the livery more relevant for you. Contact me on master@wcsim.co.uk



The Worshipful Company of
Scientific Instrument Makers

Moving forward, giving back

Calendar

October 2017

- Thursday 5 F&GP, SIM Hall, Trustees meetings
- Thursday 26 Admission Court & Dinner - The Hall*

November 2017

- Saturday 11 Lord Mayor's Show

December 2017

- Tuesday 5 Education and Professional Committees
informal Livery Lunch with BWC and INStM&C -
The Hall*
- Tuesday 12 Carol Service - St Margaret Lothbury*

January 2018

- Tuesday 16 F&GP, SIM Hall, Trustees Committees

February 2018

- Tuesday 6 Court & Livery Dinner - The Hall
- Tuesday 20 University Meeting and Education Trust
Supper - The Hall

March 2018

- 14 - 17 Big Bang Fair - NEC Birmingham
- Friday 16 United Guilds' Service - St Paul's Cathedral*
- Tuesday 20 Education and Professional Committees
SIM Hall AGM, Livery meeting and Informal
Livery Lunch - The Hall*

April 2018

- Thursday 5 SIMposium - The Hall*
- Thursday 12 F&GP, SIM Hall, Trustees
- Tuesday 24 Spring Court & Court Ladies' Dinner - The Hall

May 2018

- 12 - 15 Livery weekend in Falmouth*
- Tuesday 22 Minerva Lecture - The Hall*

June 2018

- Thursday 7 Education and Professional Committees
- Monday 18 Women in Engineering - The Hall
- Wednesday 20 Annual Banquet at Fishmongers' Hall*
- Monday 25 Election of Sheriffs - Guildhall

July 2018

- Thursday 5 F&GP, SIM Hall, Trustees
- Tuesday 17 Four Liveries Lecture - Painters' Hall*
- Thursday 19 Election Court, Church Service & Supper -
The Hall*

September 2018

- Thursday 27 Education and Professional Committees
- Friday 28 Election of Lord Mayor - Guildhall

October 2018

- Tuesday 9 F&GP, SIM Hall, Trustees
- Thursday 25 Admission Court & Dinner - The Hall*

NOT INCLUDED: Edwards' Lecture*, Ladies Only Lunch*

* you are welcome to invite guests

The Worshipful Company of
Scientific Instrument Makers
Glaziers' Hall
9 Montague Close
London
SE1 9DD

☎ +44 (0)20 7407 4832
✉ theclerk@wcsim.co.uk
🌐 wcsim.co.uk
f /scientificinstrumentmakers
🐦 @wcsim1