



The Worshipful Company of
Scientific Instrument Makers

A review of 2017/2018

Moving forward, giving back

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The Master's Report

It has been my pleasure to serve as Master of the Company during the past 12 months. Here are some of the highlights of my year.



At the outset of the year I announced that my theme would be 'signals and systems' to honour the recognition of the 50th anniversary of the publication of "General Systems Theory" by Ludwig von Bertalanffy. For most, this is an obscure choice, for those with foreknowledge a Shibboleth.

To be sure, both 'signals' and 'systems' are well-chosen weasel words open to the widest of interpretations yet also represent key components of the constituency that embodies scientific instrument making. The core backbone of the interaction of my theme to livery events was the careful choice of speakers at each of our dinners and other meetings where we enjoy the fellowship that membership of SIM provides.

This interaction began with Professor David Stupples at the Admission Court Dinner who provided an appreciation of cybersecurity whose methods and tools began with encryption in Elizabethan times. Both the signal and systems components were mirrored in the more recent ENIGMA encryption and decoding machines used during World War II and beyond, and persist in the blockchain security systems of modern times.

At our February dinner, Professor Graham Machin gave us a heads up on what to expect when the SI units are fully redefined in 2019 and in doing so gave an insight into modern metrological systems and their use of physical constants. Professor John Tyrer talked about the innovation and entrepreneurship process drawing upon his own experience in setting up a successful spin-out company that co-exists with his university interests. His rendition of the

research pipeline from blue sky thinking to purposeful product or service was especially meaningful to the younger members who attended the Education Trust Supper.

The 2018 Minerva Lecture was given by William Ayliffe, a former Gresham Professor of Physic* and practising ophthalmic surgeon. He treated us to a historical re-interpretation of the interaction of light with the eye and in so doing linked a physical system with a multi-scale physiological system that transforms the light signal into a nervous impulse in the retina - occurring at the picosecond time scale.

At the Annual Banquet, Air Vice Marshall Nick Kurth was chosen to represent and acknowledge the centenary of the formation of the Royal Air Force. By happy chance his background in air support was predicated on a thorough knowledge of both signals and systems and their application to the military.

A further highlight of the year was the annual SIMposium that, in response to a Call for Papers, attracted 14 contributions from Apprentice to the Master! These papers were split into three themes: biomedical systems, measurement systems, and systems thinking. There was a mixture of systems theory and practice over a wide variety of individual topics - indicating both breadth and depth of study related to scientific instrument making. Three authors took up the offer to have their papers published in "Nanotechnology Perceptions...", a peer-reviewed journal that provided the opportunity to enlarge upon the oral presentation given at the SIMposium.

* The term for medicine at the time the post was created in 1597.



Clockwise from top left:

The Master and Wardens and their wives at the Admission Court Dinner. L to R: Maureen Sanders, Senior Warden Ken Sanders, Marg Summers, Master Professor Ron Summers, Lesley Grattan, Junior Warden Professor Ken Grattan OBE.

The Eden Project was on our itinerary during the Master's weekend in Cornwall.

In the summer we hosted 140 London schoolgirls who had to solve a number of engineering challenges as part of Women in Engineering Day.

The Master and children from Charles Dickens Primary School in Southwark entertain us during lunch in the River Room.

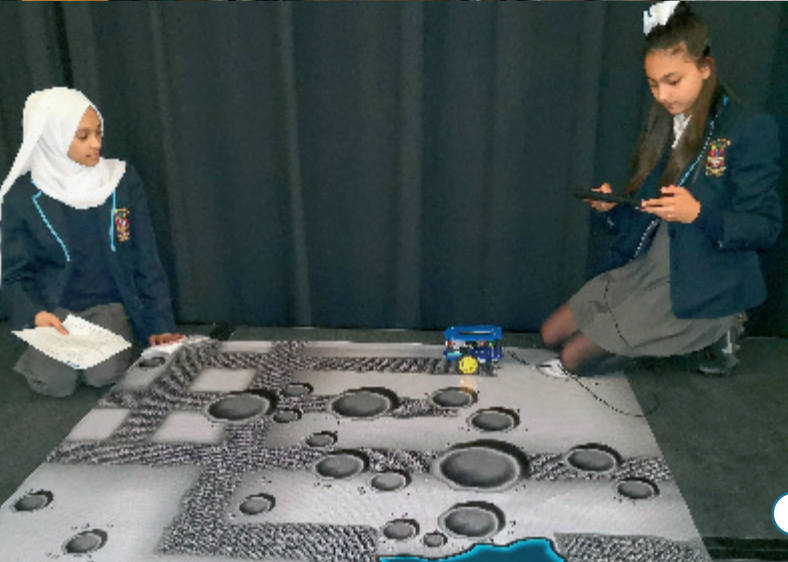
Deputy Master John Caunt presents SIM Scholar Chiaki Crews with her award.



Those who attended the Master's weekend based in Falmouth experienced an unsung technical marvel - the Telegraph Museum at Porthcurno. It is hard to believe now that the beautiful setting in which the museum sits was once the most connected place on the globe. The museum is rightly proud of this heritage and manages to give the museum goer a small taste of its former life as the premier telegraph station in the world, by use of working exhibits and maps of the locations of telegraph cables that came ashore in the cove. Though I promised not to tell, there was more than one Liveryman in the party who could remember using some of the equipment on show in their own past life!

Clearly there are other more personal highlights of the year whose memories I will cherish; my younger self would not have expected to have the opportunity to experience the places visited, the people met, and the friends made. This forms not only a personal legacy but also one in which others will benefit in the future.

Professor Ron Summers



A summary of the year, season by season

Autumn 2017

As usual, the first event of the new livery year was the Admission Court Dinner on October 26, which was attended by over 170 members and their guests. The new officers of the Company who were admitted were: Master Professor Ron Summers, Senior Warden Ken Sanders, and Junior Warden Professor Ken Grattan OBE. The principal guest and speaker was Professor David Stupples who has been Professor of Systems at City, University of London, since 2007. He specialises in research and development of networked electronic and radio systems and is currently researching networked systems with a focus on multi-sensor surveillance using both active and passive sensors.

Nine people joined the Company at the Admission Court Dinner: two Liverymen, three Freemen and four Apprentices. During the course of the evening, three military award winners were presented with their certificate and cheque by Deputy Master John Caunt.

The following day, the annual Arkwright Awards ceremony was held at the Institute of Engineering and Technology in Savoy Place. Senior Warden Ken Sanders presented the awards to the four SIM-sponsored students Peter Woo, Sammy Emmins, Vaidurya Mukherjee and Robert Ross - three of whom had joined the Company as Apprentices at the Admission Court Dinner the evening before.

Senior Warden Ken Sanders had the opportunity to take a number of Apprentices and Freemen to an All Party Parliamentary Engineering Group luncheon in the House of Lords on November 7. It was chaired by Professor, the Lord Broers. The topic of this session was 'Hacking - can huge data breaches be prevented?'



SIM members who took part in the Lord Mayor's Show parade were, from left to right: Freeman Kenza Tazi, Master Professor Ron Summers, Senior Warden Ken Sanders, Freeman Tom Davis, Freeman Emma Wills, Liveryman Ben Fernando.

Guest speakers were: Prof Andy Hopper, Head of Computer Science and Technology, Cambridge University; Dr Alastair Beresford, Reader in Computer Security Cambridge University and James Hatch, Director of Cyber Services at BAE Systems. Accompanying Ken were SIM Apprentices Michael Gucluer, Lewis Brand, Nathan Cater and Sanjay Puri and Freeman Tom Heywood.

On November 11, six members of SIM paraded in the 802nd Lord Mayor's Show, as part of the Modern Livery Companies. The procession, which is three miles long, set off from Mansion House to the Royal Courts of Justice via St Paul's Cathedral. It returned via The Embankment. The Lord Mayor's Show is London's biggest annual display of marching bands, with 20 of the country's finest taking part. It is also the largest unrehearsed procession in the world. Prior to the parade, our cutter carried the Master along the river to St Katharine Docks, as part of the Lord Mayor's flotilla.

Also in November we invited prospective new members to an informal Open Evening in the Hall. Two further similar events were held at Imperial College in March and again in the Hall in October this year.



Following the building's extensive refurbishment, the new basement at SIM Hall is now a stunning venue for dinners and receptions.

On December 5 we held our annual lunch with the Bridge Ward Club and the Institute of Measurement & Control. Our speaker was Murray Craig, Clerk of the Chamberlain's Court who regaled us with many amusing stories, from filming at Guildhall with Len Goodman on 'Who Do You Think You Are' to eating afternoon tea with Michael Caine. After his talk, Past Master Keith Etherington presented Murray with a gift from the Company, a replica of an antique astrolabe.

Our annual carol service took place on December 12, led by the Reverend Prebendary Jeremy Crossley. As in previous years, it was held jointly with Coleman Street and Broad Street Ward Clubs at St Margaret Lothbury and, at the reception after, we were able to chat to fellow SIM members and colleagues from the Ward Clubs.

On 6 February, 89 livery members and their guests attended a dinner in our newly-refurbished Hall. Our principal guest was Professor Graham Machin from the National Physical Laboratory whose topic was 'Measurement for the 21st century'. Prof Machin began by speaking about some of the innovative temperature measurement solutions he has developed during his time at NPL. He

then touched on a number of future events which will shape the field of measurement into the 2020s and beyond, both in the UK and further afield.

The pre-dinner drinks reception took place in The Arches - our brand new space that reveals an exposed part of London Bridge, dating from 1831. Previously used by the three livery companies as a basement archive and store, The Arches is so called because of its three Georgian brick arches, all of which have been totally restored.

The Arches also has a listed original York stone floor and a new temperature-controlled wine cellar. While the conversion works were taking place, the workmen found a Roman pot which you can now see in the Museum of London.



Murray Craig, Clerk of the Chamberlain's Court, receiving a gift of a replica of an antique astrolabe, from the Master and Past Master, Keith Etherington.

On February 20, we held our annual Education Trust Supper to which our Apprentices, Scholars and Freemen are invited. Apprentice Masters and representatives from our partner Universities also attend. We held an event prior to the supper where attendees gave a one-minute presentation about themselves. After this, there was a networking session during which everyone had the opportunity to chat informally and make connections. Sixty seven people attended the supper which took place in the River Room of our Hall. The guest speaker was Liveryman John Tyrer, Professor of Optical Instrumentation at Loughborough University, who gave advice for those looking to commercialise their inventions.

Spring 2018

In March the Technical Liaison Group visited the Cavendish Laboratory in Cambridge where they saw some of the scientific instruments that made possible many of the great scientific discoveries of the late 19th and early 20th centuries.

Later in March we held a lunch in the River Room of the Hall, attended by Liverymen, their guests, and Masters and Clerks from other companies. Since SIM Trustees had recently donated a sum of money to the Charles Dickens School in Southwark to spend on science equipment, we were entertained after lunch by a choir from the primary school. The pupils sang a delightful selection of songs, accompanied by guitars, violins, ukuleles and percussion instruments.

In the spring, Senior Warden Ken Sanders took two Apprentices to another All Party Parliamentary Engineering Group in the House of Lords where the topic of this meeting was 'The practicalities of charging electric vehicles'.

At the end of April we were once again 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. We award an annual prize to the Individual Experimental Project and this year it went to Oliver Normand from Winchester College.

Younger SIM members are working with the Science Museum, helping them with the planning of a new scientific instrument gallery due to open in 2019. The call was put out to our Apprentices, Scholars and Freeman and the first meeting was held in May at the Science Museum. The museum's Participation Coordinator, Zoe Lake Thomas, explained they were keen to hear ideas from our younger members on how to engage with their target audience for their new exhibition and promote the craft of scientific instrument making.

The theme of the 2018 SIMposium (held in May) was 'Signals and Systems'. There were presentations from 15 people who included SIM Apprentices, Scholars and Liverymen as well as guest speakers. The principal speaker was Simon



Professor Ron Summers presents Oliver Normand of Winchester College with his prize for the best Individual Experimental Project at the BPhO.

Singh whose talk was entitled 'Fermat, The Simpsons and Education'.

Our 2018 Minerva Lecture was given by Professor William Ayliffe. He is Emeritus Professor of Physics at Gresham College, Honorary Professor at City University of London and a Consultant Ophthalmologist at the Lister and London Bridge Hospitals in London and at Spire St Anthony's and Shirley Oaks in Surrey.

A group of 44 Liverymen and their partners attended a highly enjoyable Master's Weekend in Cornwall in May. The group stayed at the Falmouth Hotel, a castle-like Victorian hotel in Falmouth with commanding sea views. Highlights of the weekend included visits to the Eden Project, St Michael's Mount, the Knightor Winery near St Austell, the Telegraph Museum in Porthcurno, and dinner at the National Maritime Museum in Falmouth, where we hired the entire building for the evening.



Our Cutter's eye view of the Admiral of the Port 2018 race - one of our notable victories this year.

On June 18, we welcomed 140 Year 7 and 8 London schoolgirls to the Hall, for the Engineering Development Trust's biennial Women in Engineering Day. The speakers included Professor Isobel Pollock-Hulf OBE, Rebecca Ealden from Guys and St Thomas Hospital Trust and SIM Apprentice Alice Mitchell.

Throughout the day, the schoolgirls had three engineering challenges to complete. Firstly they had to build a structure mostly out of straws and sellotape. The winner was the highest structure which could take the most weight. The second challenge was a Mars lander which the girls had to programme to follow a specific track on a pre-prepared map. The final challenge was to draw an eco-house with as many energy-saving features as possible.

Two days later we held our annual banquet at Fishmongers' Hall, one of the City's most impressive livery halls. Guests were welcomed by

a carpet guard from T/S Cossack Southwark Sea Cadets and were then received by the Master and Wardens and their wives. After a champagne reception, we enjoyed a sumptuous four-course banquet, the main focus of which was quite naturally - fish. The guest speaker was Air Vice-Marshal Kurth.

In July the Antique Scientific Instrument Fair was held in our Hall. This was a joint event supported by SIM and the Scientific Instrument Society. Traders displayed their instruments in our main hall and, after lunch, there were three presentations in the River Room. SIS member Stephen Burt spoke about Stevenson's 'New Box' - a talk with a meteorological flavour. Liveryman Oliver Caunt's subject was 'Radiometric Instrumentation Design', while Liveryman Professor John Tyrer spoke about his work in counter-terrorism instrumentation, with details of metal landmine/IED detection and explosive residue detection.

On September 12, our cutter took part in the 21-mile Great River race, from Poplar to Ham House. Our team, captained by Liveryman Professor Simon Hall, came first in the cutter class and an impressive seventh overall - out of a total of 320 boats. Earlier in the year, our cutter won the Oxbridge Watermen's Challenge in April, beating 11 other cutters to secure the title. This took place on the morning of the Boat Race and followed the same 4 mile 774 yard course from Putney to Mortlake as the main race between Oxford and Cambridge. Then in June, we won the Admiral of the Port 2018, a 1.33 mile course from the Palace of Westminster to Westminster Boating Base.

Towards the end of September, a joint lecture was organised by SIM and Oxford University's Department of Physics. The speaker was Dr James Green, the Chief Scientist of NASA. The title of his lecture was 'The Search for Life on Earth, In Space and Time'. Dr Green's presentation discussed how life may be distributed in our solar system, with a closer look at the location of our own planet and consideration of the age of our sun. Following what was a fascinating lecture, SIM members retired to Hertford College for dinner.

Membership of Court and Committees 2017-18



Court of Assistants

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

Committees and listings

Finance and General Purposes Committee

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

Charitable and Educational Trust

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

Education Committee

Chairman	Ken Sanders
Vice Chairman	Professor Ken Grattan OBE Raul Abreu Colin Clifton Dr Stephen Dennis Jane Fishwick Lucy Hogarth Dr Stuart Pollitt Professor Ron Summers Anton Woodward
Clerk	Neville Watson



SIM Hall Board

Chairman Christopher Sawyer
 Keith Etherington
 Brian Fishwick, Honorary Treasurer
 Eur Ing David Kent
 Professor Tony Wilson, FREng
 John Caunt

Secretary Neville Watson

Strategic Review Committee

Chairman Ken Sanders
 John Caunt
 Brian Fishwick
 Professor Ron Summers
 Carole Seawert
 Neville Watson
 Anton Woodward

Secretary Neville Watson

Trustees

Professor Ron Summers
 Ken Sanders
 Professor Ken Grattan OBE
 John Caunt
 Christopher Sawyer
 Captain Guy Brocklebank, RN
 Aubrey Dunford
 Brian Fishwick
 David Lazenby CBE

Secretary Neville Watson

Glaziers' Hall Board

Keith Etherington*
 Christopher Sawyer*
 * alternate Brian Fishwick

Senior Stewards

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

Stewards

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

Appointments

Freeman and Scholar Warden Dr Stuart Pollitt
 Apprentice Warden Anton Woodward
 Barge Master Captain Guy Brocklebank, RN
 Honorary Treasurer Brian Fishwick
 Honorary Almoner Diane Howse
 ILLG Convenor Professor Ron Summers
 Livery Schools Link Professor Ron Summers
 Technical Liaison Raul Abreu
 Group

IT Warden Alex Peters
 These appointments were for three years with effect from October 2017.

Achievements of the Committees

Here's a summary showing what our five committees have achieved over the past year.

Finance & General Purpose Committee (F&GP)

F&GP meets four times per year and its purpose is to oversee the business of the Livery and report actions to Court. The main items of recurring business in the year to October 2018 included: receiving finance and investment reports; managing membership activities; reviewing progress on our application for a Royal Charter; recruitment of a new Clerk; and guiding the strategic review process and making recommendations to Court re its outcomes.

The finances of the Livery remain in good order and allow us to invest in the future growth of membership and associated activities. Recruitment of Freemen and Liverymen remains buoyant thanks to the continuing work of the Deputy Master and others involved in the recruitment process. Recruitment of Scholars and Apprentices also remains buoyant. Progress of our Royal Charter application is slow yet purposeful, with the hope that our efforts are rewarded in the coming year. The recruitment process for a new Clerk began in January 2018, and following an ambitious time-line we were able to appoint the successful candidate in June 2018. Dr Misha Hebel took over as Clerk at the Admission Court on 25 October, 2018.

As a consequence of feedback received from a Livery-wide survey of members in 2016, F&GP set up a Strategic Review Committee to instigate a change programme. The work of this committee continued throughout the year from which a number of its recommendations have been received by F&GP and reported to Court for action. A committee-structure 'organogram' was produced to demonstrate the transparency of communication and decision-making processes. From October 25 2018 the F&GP will become the recognised Executive Committee of the organisation and its name will change to reflect its

status. New sub-committees have been formed to take on specific responsibilities (e.g. marketing, recruiting, and planning technical and social activities). Membership of each of the committees has also been reviewed and appropriate recommendations made. Although the work of the Strategic Review Committee came to an end at its last meeting on September 20 2018, each item of its business will continue in some form within the new committee structure. The production of a SIM Strategic Plan is now underway, drawing upon experiences gained from the internal look at our processes as a consequence of the survey, combined with our external place in the Corporation of London and our discipline area.

Professor Ron Summers, Master

Charitable and Educational Trust (SIM Trust)

The SIM Trust was set up by the founders of the Livery and its funds have accrued by frequent donations and legacy awards together with some re-investment of year-on-year surpluses from well-managed accounts. In 2018, the SIM Trust fund stood at over £3 million. The Livery also invests some of the interest gained into individual scholarships, prizes and awards, and educational activities related to STEM subjects. These 'investments in the future' are aimed at students from Key Stage 2 (9 and 10-year olds) to post-doctoral University students.

Another aspect of our charitable giving is recognised by funding to individual organisations to further our craft; and the SIM Trust makes an annual donation to the Lord Mayor's Fund and to the Sheriffs' and Recorder's Fund to contribute to the causes recognised by the Corporation of London. Finally, the SIM Trust is always happy to receive individual requests from Liverymen who have specific needs. Contact in all cases should be made via the Clerk.

Professor Ron Summers, Master

SIM Hall Board

The year has been challenging for the business due to the major redevelopment to upgrade our facilities and increase our usable space by 35%. We are coming to the closing stages on this and as I hope you all and all our visitors feel that the disruption and investment has proved worthwhile. The new Arches

event space is operating in partnership with Berry Bros. and Rudd, the famous wine merchants and is a compliment that they have chosen us.

The current and prospective customer orders are breaking records and are from new and diverse areas such as the film industry, banking, technology and international eg China Telecom, Deutsche Bank, and Wells Fargo. They are attracted to the modern multi-purpose spaces and its unique location. We are therefore encouraged with the outlook.

Following undertaking these extensive works, GHIL is in the process of carrying out a revaluation of the Leasehold Property. The GHIL board are confident this will fully support the investment undertaken and the revaluation will be incorporated into the annual accounts for the year ending 30/09/18.

Christopher Sawyer, Past Master

Education Committee

With the responsibility to manage a budget of some £80,000 for the Company's key education support programmes, the team of volunteers forming the Education Committee has had a busy year.

Following the demise of Young Engineers, a major effort has gone into proposing a replacement programme that would enable us to judge suitable STEM projects in the 16 to 18 year age group and, after mentoring, with NPL support, fund the best two to attend the International Science and Engineering Fair. We are keen to do this as we are one of the few UK organisations supporting ISEF with past successes of major category winners in four previous years. It has been a long exercise, having discussed options with four outside organisations, but we are optimistic that we will formulate a suitable programme with Eng(UK), which retains our involvement with the Big Bang Fair, commencing late 2018.

This programme is also a key source of fresh Apprentices for SIM, alongside the continuing involvement with Arkwright.

Our local school support programmes continued with a prize at the City of London Academy in Southwark, for the best Science Student; a significant one-off contribution of £1,500 to fund a science section at the Charles Dickens Primary School, which was very gratefully received; and the funding of three STEM activity days with Smallpeice. We are also in discussions with Primary Engineer about the possibility of funding STEM activity days in London Schools.

Finally an annual budget of £2,500 has been approved by the charity to fund foreign travel needs to support the presentation of scientific papers abroad. This will complement the research grants the Company gives out, and a new brochure has been published detailing these schemes.

Ken Sanders, Senior Warden

Strategic Review Committee

Strong progress has continued to be made by this important activity, in the past year, in analysing the results of the consultation surveys, and implementing programmes in support.

Specifically, responding to the Liveryman survey, we have:

- Appointed an Induction Warden, with responsibility to help new Liverymen integrate fully, assist their active involvement with the Livery, and to canvass opinions on a regular basis. The first priority will be, with the help of video, to 'demystify' the Admission Court Process.
- Appointed a Social Warden to work alongside our Technical Visit Warden, to increase our external activity level.

The IT Warden has done some work on the Clerk's database to clean up the fields and is supporting an upgrade of the Livery website due to be completed this autumn. We are exploring ways to link our site with others, such as LinkedIn.

A complete set of Style Guidelines has been published, incorporating our Mission Statement, purpose and strapline. This covers all types of printed and Livery documentation.

A programme is in place to review our communications strategy with our younger members, involving a focus group consultation process.

Finally, recognising that to be effective, these new roles and programmes must be managed, the Court has approved our proposal to allow the F&GP to become an Executive Committee, delegated by the Court with a responsibility to manage the programmes and roles of the Company, in addition to its financial matters. Reporting to the Executive will be the Education Committee, the Promotion and Marketing Committee and the newly-formed Membership Development Committee.

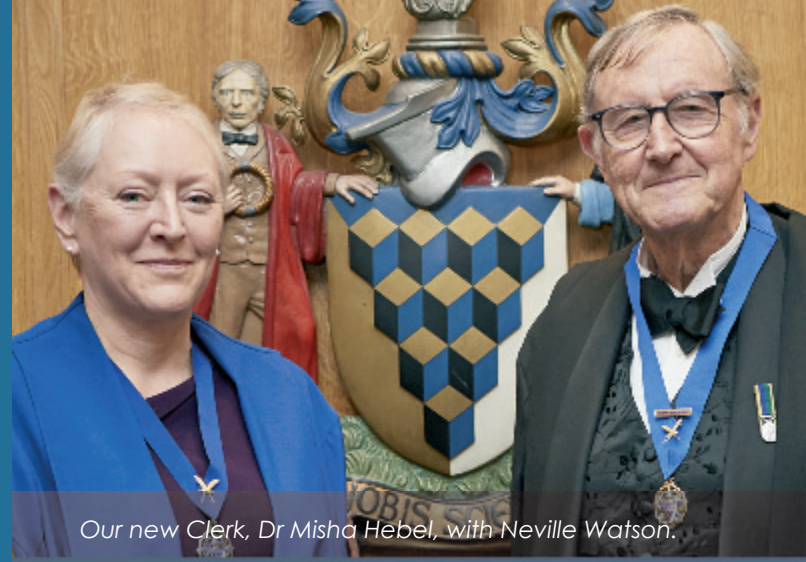
Once this new structure is up and running, the SRC will dissolve its responsibilities into the Executive.

Ken Sanders, Senior Warden

A new Clerk



Neville Watson is retiring after 18 years as our Clerk. He will be succeeded by Dr Misha Hebel.



Our new Clerk, Dr Misha Hebel, with Neville Watson.

Neville Watson retires as our Clerk

Neville was elected Clerk to the Company in 2000 after a long and successful career in the catering world, culminating in running a country hotel in Northamptonshire with his wife Jo. Retirement offered too quiet a life so Neville put himself forward to fill the vacancy of Clerk. He was the most outstanding candidate and was duly elected by the Court as third Clerk to the Livery. He quickly grasped the duties. The first evident sign was the range of menus at our meals, followed by a distinct improvement to the quality and value of our wine cellar.

Neville has been an excellent Clerk and there is no doubting the tremendous value that he brought to the company. We must acknowledge the great support that his wife, Honorary Freeman Jo Watson, has provided to Neville and the beautiful flower arrangements that she organised for so many of the events.

Neville looked after the management of the company superbly. He developed techniques for managing all the 18 Masters in office during his clerkship. Each of us appreciated the way in which he dealt with our varied agendas and different personalities.

Neville handed over the stewardship of the Company to Dr Maria (Misha) Hebel at the Admission Court where he was appointed Clerk Emeritus and an Honorary Liveryman. He will join the newly-formed wine committee to help us continue to develop our wine cellar. We all thank Neville for his great contribution to our Livery over the last 18 years and wish him and Jo an enjoyable next phase of their lives.

Past Masters Guy Brocklebank and Keith Etherington

Welcome to our new Clerk

For those of you who haven't read this elsewhere, I am of Polish and English origin and very proud of both. My Polish family come from the north of Poland around Gdynia (hence the short Germanic surname) and my English family from Suffolk. My first name is an Anglicised nickname of my Polish first name. I am a keen amateur genealogist and have traced my ancestors back to the 14th century. I have also discovered that J K Rowling is my seventh cousin and Gerald Scarfe my fifth cousin. I can talk about family trees and DNA testing forever, so don't ask me about this at an event.

Having two languages to draw upon has resulted in a deep interest in different ways of communicating, using art, diagrams and models to understand and convey information across cultures. I spent a lot of my early working life in the Metropolitan Police dealing with Information of various sorts and was an early adopter of Information Technology, something that still interests me. This eventually led me to a PhD with the now defunct Systems Science Department at City University London where I used Soft Systems Methodology as the basis of my research into how people made value judgements about performance measures. An interesting side effect of this was developing a love for the City of London.

A subsequent journey through the City Alumni Association, Livery Companies, Ward Clubs, the City Values Forum and studying wine with the Wine and Spirits Education Trust (WSET) led me to be Clerk of the Educators and now, happily, with the Scientific Instrument Makers.

Dr Misha Hebel



Our 2017 Apprentices are, from left to right pictured with Master Professor Ron Summers, Peter Woo, Robert Ross, Robbie King and Sammy Emmins.

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 Clerk.

New Liverymen

Professor Pankaj Vagdama
 Dr Carl Hunter
 Elizabeth Murphy
 Richard Payne

New Freeman

Benjamin Cowan
 Bridget Donaldson
 Johannes Heyl
 Gavin Leong
 Peter Meades
 Andy Morris
 Tom Rivling
 Steven Vuong

New Apprentices

Sammy Emmins, Arkwright Scholar
 Robbie King, winner of the 2017 SIM-sponsored British
 Robert Ross, Arkwright Scholar
 Peter Woo, Arkwright Scholar

2018 SIM Cohen Award Scholars

Joseph Hoskin, UCL
 Michelle Nomoni, City University

Beloe Fellow 2016/17

Dr Jamie Marland, Edinburgh University

2018 SIM Scholars

Elizabeth Carr, UCL
 Jamie Macdonald, Imperial College
 Kenny Moir, Glasgow Caledonian
 Margaret Normand, Edinburgh University
 Colum O'Leary, Oxford University
 Edward Tallboys, City University

In Memoriam

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

Liveryman Rodney Taylor on 28 January 2018
 Liveryman Carlos Brebbia on 3 March 2018

Our Senior and Junior Wardens Elect

A brief introduction



Professor Ken Grattan OBE

Martyn Wheatley

Professor Ken Grattan OBE Senior 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.

Martyn Wheatley Junior Warden

Martyn Wheatley is an automation feedback specialist. This means, if you own a robot, then he is your man!

Martyn has worked in automated systems of all descriptions for over 40 years and specialises in the application of a wide range of sensor devices across every type of computer-controlled set up imaginable.

With origins in Birmingham and degree qualified from Aston University, Martyn has worked with several blue-chip companies, growing sensor sales by identifying and developing sensor opportunities into growth markets.

Martyn was on the original team which created and grew Baumer UK to become a multi-million-pound business. Honeywell Control's industrial, aerospace and networks divisions were the next to benefit from his market knowledge and his targeted structured approach to selling. He also set up Contrinex UK and is currently the Sales Director of Rechner UK.

His expertise of sensors for manufacturing is broad and extends from extremely rugged inductive sensors for welding cars together through to explosion zone ATEX capacitive products for safely handling flour in biscuit production.

Martyn has been an active member of SIM for over 13 years, supporting many new initiatives and especially the current focus on recruitment of new members.

He is very happily married to Valerie and their hobbies are buying art, playing Mah Jong, watching old films, theatre and travel.

The Master Elect's Statement

Master Elect Ken Sanders gives us a flavour of his forthcoming year.



It is a great honour to be elected as the Master of SIM for 2018/2019, and I pledge to do my utmost to further the aims and objectives of the Company, particularly in the words of our strap line, moving forward - giving back.

We have worked hard in the last two years to better understand the needs and priorities of our members, from the youngest Apprentices, through Scholars and Freemen, to Liverymen at all stages of their careers and retirement. It will be my priority to continue to put in place new activities and to enhance existing ones to help fulfil those expectations.

Key to this will be working closely with our new Clerk, and the new organisation we have put in place, to ensure we follow through on our commitments and to support the Wardens with their specific, and sometimes new, responsibilities.

One of these important areas, as we continue our important and successful recruitment drive, initiated by Past Master Caunt, will be to ensure we do an even better job of introducing and assimilating new Liverymen into the Company. For this specific responsibility we have installed a new Induction Warden, Dr Stephen O' Connor.

As a businessman, growing the understanding and appreciation of the needs of business has always been one of my priorities, and my theme for the year will be supporting our younger members in their endeavours, and growing STEM support and awareness, a priority I have held all my working life. This supports our livery objective of ensuring our craft will flourish.

To this end I want to make the theme of my SIMposium 'To be an Entrepreneur - starting your own business' with speakers on related topics.

The Master's Weekend in May 2019 will be in the lovely city of Oporto in Portugal. I sincerely hope you will accompany me for an interesting weekend, which will include a private boat trip on the River Douro.

Again, also responding to the surveys, I hope to include one or two purely social events and visits in the calendar, to complement our technical visit programme.

I do look forward to working with our new Clerk, Misha, in both our 'first years' and I also look forward to working closely with the Wardens: Prof Ken Grattan OBE, Senior Warden and Martyn Wheatley, the Junior Warden.

In summary, I hope I can fulfil the trust you are putting in me in electing me to this role and pledge, again, to support and develop the aims and objectives of the Company. I know I can count on the support of all members in this endeavour, and remember I am always open to comments and suggestions for improvement, so please don't hesitate to let me know what you think!



The Worshipful Company of
Scientific Instrument Makers

Moving forward, giving back

Calendar

NOVEMBER 2018

Saturday 10 Lord Mayor's Show
Thursday 15 Ladies Only Lunch

DECEMBER 2018

Tuesday 4 Education, Promoting & Marketing,
Membership Development Committee
meetings - Informal Livery Lunch with BWC
and Inst M&C - The Hall *
Wednesday 19 Carol Service - St Margaret Lothbury *

JANUARY 2019

Monday 21 Exec, F&GP, SIM Hall, Trustees meetings

FEBRUARY 2019

Tuesday 12 Court & Livery Dinner - The Hall
Tuesday 26 Education Trust Supper - The Hall
Young Members' Event

MARCH 2019

Tuesday 19 Education Committee, SIM Hall AGM,
Livery Meeting, Informal Livery
Lunch - The Hall *
Friday 29 United Guilds' Service - St Paul's *

APRIL 2019

EASTER 19-21
Tuesday 2 Exec, F&GP, SIM Hall, Trustees meetings
Tuesday 9 SIMposium - The Hall *
Tuesday 16 Spring Court & Court Ladies'
Dinner - The Hall

MAY 2019

BANK HOLIDAYS 6 & 27
Thu 16 - Sun 19 Livery Weekend in Porto *

JUNE 2019

Thursday 6 Education, Promoting & Marketing,
Membership Development Committee
meetings
Thursday 27 Annual Banquet, Painters' Hall *
Monday 24 Election of Sheriffs

JULY 2019

Thursday 4 Exec, F&GP, SIM Hall, Trustees meetings
Recruitment Evening
Tuesday 16 Election Court & Lunch - The Hall *

AUGUST 2019 BANK HOLIDAY 26

SEPTEMBER 2019

Thursday 12 Four Liveries' Lecture *
Thursday 19 Education, Promoting & Marketing,
Membership Development Committee
meetings

OCTOBER 2019

Wednesday 2 Election of the Lord Mayor
Thursday 10 Exec, F&GP, SIM Hall, Trustees meetings
Thursday 24 Admission Court & Dinner - The Hall *

NOT INCLUDED Minerva Lecture *

Partners welcome *

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