



The Worshipful Company of
Scientific Instrument Makers

A review of 2020/2021

Moving forward, giving back



The Master's Report

Moving forward - Giving Back



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The last twelve months have been an extraordinary and testing year by anyone's imagination! My year as the Master, where I and our members spent almost my entire term in office, being based at home, would have challenged any organisation!

However, the Worshipful Company of Scientific Instrument Makers, or SIM for short, showed its resilience plus the resourcefulness of its members. We all took part in, and had so many interesting events, which we can now look back on and remember, as well as be proud of.

When COVID kicked-off, the full structured schedule of all of the committees and management meetings was *immediately* adapted into virtual on-line formats. Thank you to Misha our Clerk and Karen, our Assistant Clerk for arranging and organising these.

The on-line activities, of SIM, went from strength to strength, and soon included every aspect of our Company business and especially our Charity activities.

Even though conventional meetings have now resumed, we have retained the virtual aspect in a hybrid format. This ensures full inclusive involvement, at all levels, and it has clearly shown that attendance, in particular for members, who in the past could not always travel, due to health or location, can now fully participate.

Throughout lock-down, the Company continued to hold regular Admissions Court Ceremonies, on-line, to allow new Apprentices, Freeman and Members to join SIM and become part of our growing Company and networks.

All candidates had half an hour each, which allows for the ceremony, as well as plenty of time to chat and discuss how best SIM can support every

new applicant as well as introduce them to other members.

One of the life-bloods of the WCSIM, is our quarterly recruitment evenings, or MeetUs events as they are known. During lockdown we continued to regularly hold these, to welcome new members to the Company. We were glad to get back to a face-to-face evening in September 2021 where six new interested future members came to Hall for a reception. These occasions are well organised and run by Jim Webster, our Recruitment Warden. At each one, all new potential members, who are interested in joining SIM, can visit Hall to meet SIM members, plus ask them any questions about our Company, and discuss the benefits for them, of joining SIM. As a result of these activities, during my year as The Master, our membership has increased, including Apprentices, Freeman and Liverymen.

One very enjoyable event in September 2021, was getting to finally meet many of the Apprentices, Freeman and Livery members, who had joined SIM over the last eighteen months.....but whom we had never met! The New Member's Reception was held in The River Room at Hall, where we got to welcome our new members, share a glass of champagne with canapés, plus enjoy a wonderful sunny view of The City, across the river.

One of the new initiatives which SIM successfully developed, was the quarterly webinar programme which really developed well from our first event and attracted large audiences from our own membership as well as from associated organisations.

The initial broadcast was in November 2020 and was about The Air Quality in Our Cities. This was presented by Dr John Saffell and included the lessons we learnt from the drops in lock-down pollution levels. John explained it all, as well fielding a lively Q&A session afterwards. John Saffell is a SIM Member who has

been developing and manufacturing sensors for air quality monitoring since 2007.

Our second webinar was held on Thursday 25 February, to a record audience in excess of two-hundred guests, which was a fascinating presentation about the Disappearance of a Malaysian Airways flight by liveryman Ian Gilbert. Flight MH370 went missing on 08 March 2014 and Ian's in-depth knowledge of all things avionic plus his analysis of how this could possibly have happened was excellent. Ian has worked in aerospace and avionics since 1967 and remains active today as a technical consultant on instrumentation, recording and the analysis of flight data.

The third SIM webinar was a retrospective look at COVID, and the effects which it has had on the world, by Professor Philip Thomas. This presentation was well received and was broadcast during May 2021. Philip has published many articles on COVID, some of which you will find linked to our website, and with his expertise on risk analysis.

SIM has shared links with other related organisations, such as the Foundation of Science and Technology, the Honourable Air Pilots, the Institute of Physics and Engineering in Medicine, The Worshipful Company of Engineers and the Institute of Measurement and Control, as well as other groups. Members of these linked organisations were able to share and enjoy our series of fascinating programmes.

Another successful presentation was our Education Trust Networking Event held, in February 2021, allowing everyone to network and make new useful contacts through a successful virtual event at which Apprentices, Scholars, Freeman and Liverymen came together via the power of Zoom.

Following a welcome and an introduction, the Education Trust Networking programme included break out forums, which were hosted, by five SIM Member as facilitators. I am very grateful to all of them, for giving up their time to support this important event. They each encouraged lively discussions and engagement on the following wide range of topics:

1. Beyond Covid-19: The Future of Work - facilitated by **Jessica Leigh Jones MBE**
2. Entrepreneurial/Business Development - facilitated by **Roger Goldsborough**
3. COVID and how it should be modelled - facilitated by **Professor Philip Thomas**
4. Unmanned Aerial Vehicles - facilitated by **Ian Gilbert**
5. University Representatives discussions on closer SIM links - by **Professor Hugh McCann**

In March 2021 our annual Minerva Lecture welcomed science royalty, Sir James Hough, who is one of the world's leading experts on Gravitational Waves. The 'gravitational analogy of radio waves' was predicted by Einstein in his Theory of Relativity, and was confirmed over forty years later, by Sir Jim and his colleagues. This well-attended lecture, about his lifetime search to discover Gravitation Waves, was indeed a true treat and an honour.

One of our objectives during COVID, was to ensure that we kept all of our members informed, and so we began the frequent release of bulletins, updated our website functionality, and posted regular news items on the SIM site. We also started 'all member' mail-outs by direct e-mails, about pending events. Members took advantage of this information and got involved in so many successful SIM events on-line. We have been very busy!

Another treat during my year, was the detailed history of Dame Jocelyn Bell Burnell's career, spent finding Pulsars, plus her inspiration to, and support of, women and minorities into science. This was at the joint 2021 Edwards Lecture, which SIM holds in close association with City, University of London, and the Edwards Company.

SIM members like to play as well. One of the most popular and fun events, we held, was the on-line Cheese & Wine Tasting with 'The Big Cheese', Harry, from LoveCheese.co.uk. This was a wonderful and unforgettable evening. The large audience, who were participating at home with delivered cheese and wine samples, did not want it to end, and were reluctant to leave! During the evening, the audience also made it clear, that they would like a follow-up occasion.

As a result of that mandate, I went on to organise and hold the subsequent Port & Cheese tasting in May. This proved to be an even bigger treat! Finally in the Summer, as the COVID restrictions began to lift, we were able to hold our first face to face event in over eighteen months. This was a splendid evening banquet at the lovely Haberdashers Hall with nearly one hundred guests, all socially distanced and following clear safe guidelines. In our finest suits and frocks we enjoyed a superb dinner and were entertained by Emma Smith, who is an amazing and versatile jazz singer.

The banquet formed part of The Masters Weekend and on the following day, we were at Hall again for the first time in 2021. This made it possible for further members to meet-up and catch-up for the first time in many months.

Before a tasty lunch, Christopher Sawyer, gave a fascinating presentation about, the successful application by WCSIM, which has resulted in the Company being awarded our Royal Charter. This is a great honour for the Worshipful Company of Scientific Instrument Makers to be recognised in this way. Thank you to Christopher and Jane Sawyer for organising, as well as funding, this long and detailed programme on our behalf.

Another part of the day, was a detailed history walk around Southwark and along The Thames by me, bringing to life the background of the area around our Hall. Southwark has a very rich history, which stretches back to the Romans, but which has seen a complete transformation in the last forty years, into the vibrant community which it is today.

The Election of Sheriffs in June was my first face-to-face event as The Master of the WCSIM, after having been in office for over eight months! It was good to be back, at The Guildhall, on what was a wonderful sunny day.

Soon after in July, SIM held its first Court Meeting, in person since February 2020 at Glaziers Hall. It was also an Election Court and so this allowed many new members to join WCSIM. The Court welcomed a very long list of new Apprentices, Freeman and Liverymen, with a full induction ceremony, for each person.

After the formalities we had a chance to hold a relaxing reception, where we got to meet and chat with our new members in The River Room. It was also an opportunity to catch-up with old SIM friends and colleagues.

On the same day, one of our Apprentices, Ukendar Vadivel, was invited to The Mansion House, along with his parents and his Apprentice Master, Brian Fishwick. Ukendar received The Lord Mayor's COVID Award, from the Lord Mayor himself, for his outstanding contribution during the pandemic. Ukendar worked to develop and produce, a bespoke 3D printed face shield, for NHS workers. His designs and production techniques, reduced manufacturing times significantly and with a fellow schoolmate, they became one of the top ten producers of face shields in London.

Ukendar then returned to Hall, where he told the Court about his well-deserved honour. Everyone at SIM is very proud of Ukendar and his contribution at such a crucial time.

Not everything at SIM is technical. As a Brummie living in London, I have learnt about London by reading-up and writing history walks. So, on a Saturday in August, my wife Valerie and I, took a group of SIM members along the route of the Westbourne River.

London has many hidden rivers, which being below or feet, are mostly forgotten. Their path and history though, has shaped the communities through which they pass, and so I told the stories and background of the river. The Westbourne flows from West Hampstead, through Paddington, under Bayswater, and once fed the Serpentine before cascading over the falls at The Dell, and under Knights Bridge. I told stories of The Crystal Palace, the Lansbury Lido, the London to Brighton Car Run, Peter Pan, George Frederick Watts, The Pantechnicon, Mozart at The Rotunda and the origins of The Royal Hospital. The Westbourne has flowed past all these events, throughout history.

This September we had another gem of a presentation, by no other person than my own brother Stephen. He is a RNLI volunteer and fundraiser at Tower Pier on the Thames. Stephen's structured and well-illustrated talk about the RNLI's life-saving activities and the multiple levels of technology used, plus the incredible boats deployed, was inspiring. Their lifeboat station is responsible for 6% of all the RNLI shouts in the entire UK, and the London crews, save many lives each year. A big thank you to Stephen and all his colleagues, for the great work which they do.

I have enjoyed my year as The Master of the Worshipful Company of Scientific Instrument Makers – it has been an honour. In my year, SIM has held more events than ever before, as well as kept our organisation alive and vibrant, despite all the challenges. I hope that you have enjoyed taking part.

I wish our new Master, Charles Holroyd, and his Consort Caroline, all the best during his term in office and I look forward to supporting them as Deputy Master.



What a year that was!

Who would have thought that we would have spent almost another year with social distancing, wearing face masks and restrictions on events and meeting others.

It seems incredible that back in March 2020, we initially postponed the then Master's Livery weekend to Northern Ireland with the ambition to hold it in the September of the same year. Whilst we made initial plans to hold a Livery weekend in 2021, those plans were once again scuppered as travel restrictions and meeting restrictions remained in place. Who would have thought indeed!

However, not being able to meet in person for a large percentage of the last year has meant that the Company has continued to adapt how it engages and provided opportunities for members to meet through a wide variety of social occasions including quizzes, hugely popular webinars, lectures, cheese and wine/port tasting events and even Education Trust Networking events. Covid has not stopped SIM from engaging and growing!

Lets have a recap of WCSIM activities during 2020/21.....

November 20

Sadly the normal activities such as Lord Mayors Show, Garden of Remembrance and Service at St Pauls Cathedral were all cancelled due to the Covid situation. However, the Master and Clerk were still able to attend the Lord Mayors virtual address to the Livery, albeit from the comfort of their own homes.

December 20

Whilst unable to meet together due to Lockdown, we were able to join in on a virtual Christmas get together and Quiz. A number of members grabbed a mince pie and mulled wine and pulled on their Christmas Jumper for the Masters Christmas quiz. Members were split into teams and moved into breakout rooms. The festive questions were then fed into the groups for them to answer whilst they



chatted. A very simple and enjoyable evening which resulted in the winning team electing one person to receive the prize. The winning team elected Seren Hopkins to receive the prize.

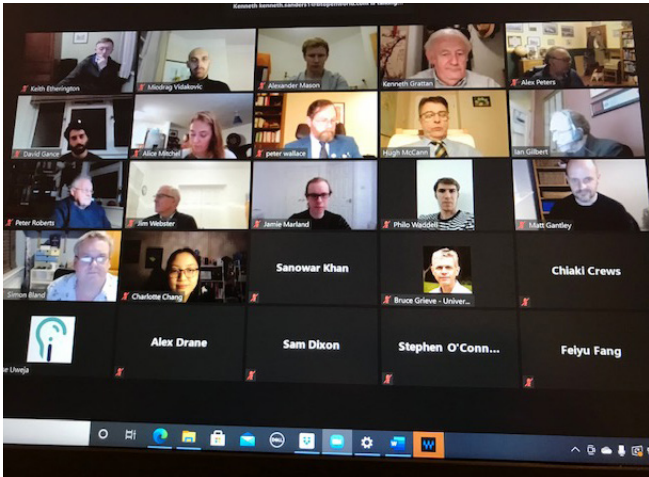
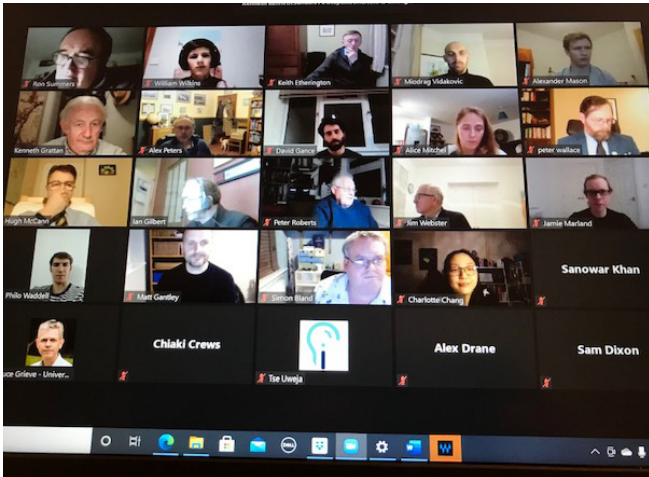
January 21

January saw Britain once again in lockdown as the NHS started to roll out the long awaited vaccine to everyone in a priority order. WCSIM was unable to hold the usual Court dinner, but the Court meeting itself took place via Zoom with 3 new Liverymen being clothed, 8 new Freemen, 5 Scholars and 3 new Apprentices joining the ranks of the Company. The declaration Ceremonies were done individually rather than a full Court to make the experience more personal and these proved very popular as they made the process personal and individual.



February 21

February proved to be a busy month. Early in the month, the Company held an online Education Trust Networking event. The event was extremely well attended with over 60 individuals registered to attend. Attendees received an update on Covid from the Junior Warden before breaking into special interest groups: **Jessica Leigh Jones MBE** – Beyond Covid-19: The Future of Work; **Roger Goldsborough** – Entrepreneurial/Business Development; **Philip Thomas** – COVID – the disease, how it should be modelled and **Ian Gilbert** - Unmanned Aerial Vehicles. Not forgetting the opportunity for University contacts to meet with Hugh McCann the University Warden. This was an incredibly engaging and enjoyable event, despite being held virtually!



Later in February, members had the opportunity to explore the disappearance of Malaysian Airlines flight 370 in a webinar hosted by Ian Gilbert. This was incredibly well attended with almost 200 individuals registered to attend! This webinar was opened out

to many other organisations linked with SIM and the subject proved to be a huge draw. This provided a fascinating insight to the aircrafts loss and held everyone captivated throughout the evening.

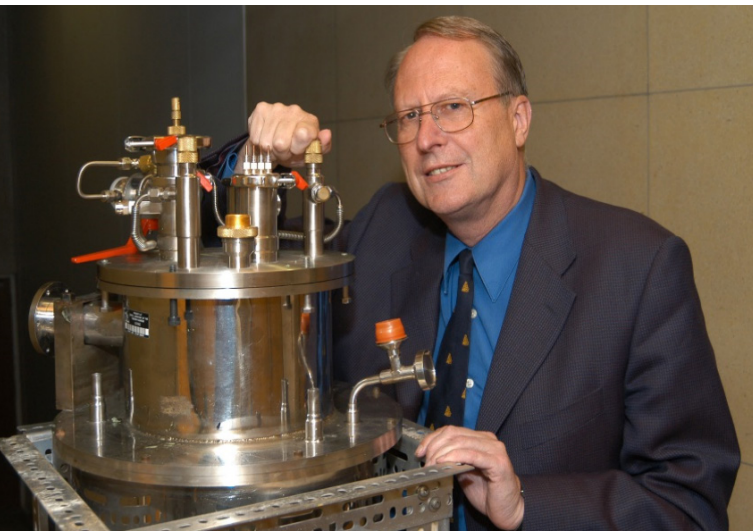


March 21

March provided an opportunity for the regular committee meetings to take place to ensure the management of the company continued. And also the opportunity for Sir James Hough to deliver the **annual Minerva Lecture**. The lecture for 2021 was entitled 'Ripples from the Dark side of the Moon.' It explored the field of gravitational wave detection from the first days of the aluminium bar detectors to the present time.

Wherein the laser interferometer detectors Advanced LIGO and Advanced Virgo allowed gravitational waves from coalescing black holes to be detected and are opening up a new field of gravitational multi-messenger astrophysics.

The lecture was once again incredibly well attended by members and partner organisations. A fascinating insight!



In March, SIM was provided a rare opportunity to join a live stream from the cockpit of the new Airbus A320, hosted by Liveryman Robert Seaman. The virtual stream took a tour exploring how scientific instruments, when operationalised, keep fly-by-wire aircrafts in the sky.... and a bit about what happens if they go wrong.



April 21

April saw the annual SIMposium being held, again online via ZOOM. The event was badged as –

SIMposium - a showcase of scientific instrumentation today: presenting latest developments from SIM Freeman and Scholars

Guest speakers included

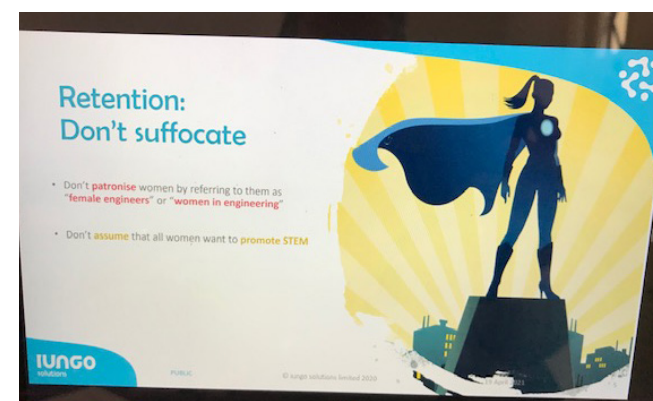
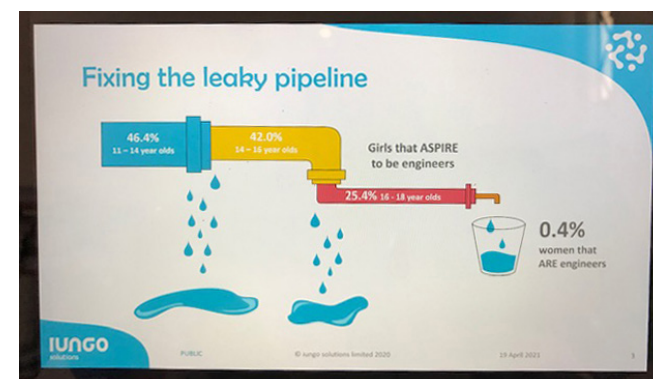
Professor Tong Sun OBE – City, University of London
Topic - Fibre optic sensors for industry and Women in Science and Industry

Matthias Fabian – City, University of London and current SIM Beloe Fellow

Jessica Leigh Jones MBE – iungo solutions
Topic – Sustainability of the talent pipeline for women in engineering

Professor Stephen O'Connor – President of IPEM
Topic – IPEM and WCSIM association, background on joint essay competition and details of winning entry

James Bezer – IPEM Essay Price Winner 2020
Topic - Presentation of winning IPEM essay: Innovation and Communication – Scientific Instrumentation Improving Patient Outcomes



The end of April saw SIM host a highly entertaining and successful Virtual Cheese and Wine evening. Hosted by 'The Big Cheese' – Harry the owner of 'Love Cheese' based in York. Harry guided us through Italy as we explored two Italian wines and 6 cheeses.

Below are some of the comments from individuals who attended the Cheese and wine event.

Congratulations on a superb Cheese and Wine evening. It was possibly the most relaxed evening I have spent with fellow Liverymen in a very long while. 'Thank you for organizing this event...and so well!!!.'

'Thanks for organizing last night's event – it went very well and you could see how glad everyone was to get together in a social setting – even through Zoom.'

'Thank you Master, Misha and Karen for a fun and well-organised evening'

'Congratulations! By far the best on-line event I have attended. Was so cross-interest! Lets have more online like this. Best wishes and thank-you for the invitation'.



May/June 21

May and June were quiet months for the Company but SIM continued with its series of webinars with the May one delivered by the Junior Warden – Professor Philip Thomas entitled - *Measuring and controlling the Covid-19 Pandemic – how well have we done?*

As with the previous webinars and lectures, this one was extremely well attended, and with such a relevant subject that was not a surprise!

In June and due to popular demand, SIM held a rematch in partnership with Love Cheese. This time it was Cheese and Port being explored with two excellent bottles of port and 6 cheeses. Once again Harry, 'The Big Cheese' guided the attendees through the differing tastes



July 21

July saw, at long last, the return to face to face events. Despite restrictions remaining in place, just under 100 Liverymen, Freemen and guests met together at Haberdashers Hall for the first face to face event in over 16 months.



It was a fantastic evening with everyone enjoying seeing others for the first time in over a year. Despite the restrictions in place all attending thoroughly enjoyed the event. As it was the first time together for so long instead of a guest speaker, the Master and Deputy Master elected for some lighter entertainment with a superb Jazz Singer.



On the Saturday immediately following the Banquet, the activities continued with a get together and lunch at the Hall. There was plenty of time for informal catch ups after so long and Past Master Christopher Sawyer gave a brief overview on the Royal Charter which had been agreed earlier in the year. Following lunch a group joined the Master on a walking tour of the surrounding area. Certainly an excellent opportunity for members to meet together again after so long.

September 21

September provided an opportunity for reflection as many members of the Company attended the memorial Service for Past Master Guy Brocklebank. This event was held in Southwark Cathedral before attendees made the short walk to Glaziers Hall for a reception. Some 250 people attended the service including a representative attending on behalf of the Princess Royal.

September also saw the third webinar of the year with the Master's brother Stephen Wheatley providing an opportunity to explore the workings of an inshore lifeboat and the technology used by the RNLI to help save lives. Stephen is a volunteer lifeboat man based at the Tower Lifeboat station. Again another fascinating webinar, enjoyed by all.

What a year! Despite the limitations imposed during to the pandemic, SIM continued to rise to the challenge and continually look for different ways to engage with members and provide as many opportunities as possible.

Committee Achievements



Education Committee Annual Report, November 2021

Involving young people in science and engineering

The Covid-19 crisis has reminded us, if ever we needed the prompt, just how much our health and prosperity in years to come will depend on young people of today taking up the challenges of science and engineering and developing those subjects further into the future. Support for learning lies at the heart of the Worshipful Company of Scientific Instrument Makers' mission, where it accounts for the bulk of its charitable giving. The Livery provides sponsorship across the range, from primary and secondary schooling through to undergraduate and postgraduate education.

Our goal is to promote science, technology, engineering and mathematics (STEM) to young people and we work with teachers to encourage participation in schools while also giving financial support to those studying at university, whether as undergraduates, postgraduate students or post-doctoral researchers.

We provide help, via grants and sponsorship of prizes, to three local schools where we have direct links: the Charles Dickens Primary in Southwark, the London Nautical School and the City of London Academy, Southwark. We also host an annual science event for a dozen London schools, including Charles Dickens, in co-operation with Primary Engineer, a not-for-profit organisation that promotes engineering at an early stage in schools. This technological meeting, which helps teachers satisfy key scientific aspects of the national curriculum, is much appreciated by the children who take part. Nationally imposed Covid lockdowns meant it could not be held in 2021, but planning is at an advanced stage to resume our important programme of joint events from February 2022 onwards.

The Company appoints roughly half a dozen new Apprentices each year, often working with outside organisations to find suitable candidates. For example, we collaborate with the Smallpeice Trust to identify four

high-calibre 16-year-olds studying STEM subjects, whom we sponsor as Arkwright Scholars. They become our Apprentices for the rest of their time in the sixth form or equivalent, and our sponsorship normally continues during their time at university. It is not practical for us to provide direct instruction to either school pupils or university students, but we do provide valuable mentoring. Thus all Company Apprentices are entitled to discuss their progress with and receive advice from their nominated Apprentice Master on a regular basis. Apprentices are encouraged to become Freemen of the Company after graduating, which gives them the opportunity to help their successors follow a similarly successful path. We are currently supporting 32 Apprentices with the majority of these pursuing university courses.

We encourage postgraduate research by providing 2-year scholarships to worthy applicants studying for their PhDs. Up to two Sir Ivor Cohen Awards are given annually to those working towards their doctorates at University College, London and City, University of London, and up to seven Research Scholarships are granted to those studying elsewhere. Five open Research Scholarships and one Sir Ivor Cohen Award were authorised in 2021. Two Beloe Fellowships were also granted in support of nationally leading research at the post-doctoral level.

The disbursement of funds is overseen by the Charitable and Educational Trust, and executed by the Company's Education Committee. I should like to express my thanks, as outgoing chairman, to the members of that committee for their selfless efforts in ensuring, during a difficult, Covid-affected year, that a significant annual sum has continued to be spent wisely in the promotion of skills that will prove vital to the country's future success and well-being.

Philip Thomas
Senior Warden
28 November 2021

Finance and General Purposes Committee (F&GP)

The Finance and General Purposes Committee, or F&GP, is one of the vital executive groups which helps run the business of the Livery.

The committee receives reports from all of the other principal committees, and the F&GP in turn is then responsible to The Court.

The Chair of the Education Committee, the Membership Development & Promotion Committee, plus SIM Hall Committee, as well as the Charitable & Education Trust chair, all sit on the F&GP.

In turn the F&GP then takes actions, regarding investments, approval of joining applicants, sets membership growth and recruitment priorities, overseas management of the Hall and events, plus makes recommendations and advises The Court on a wide range of topics.

The committee also works closely with the Clerk and Assistant Clerk to ensure that they receive our full support across all Company affairs and activities.

As The Master I ensured that this dynamic committee has continued with the many new initiatives for the Company to benefit our Membership.

A high priority has been, and will continue to be placed, on future recruitment to SIM.

The number of events, which members can become involved in, has increased significantly over the last year. These are not only Scientific or related to our Craft, but include a wide range of new, purely social, events too.

These latest activities have proved popular, and membership involvement is now increasing, which in turn provides important fresh networking possibilities for everyone.

Almost all of the F&GP meetings during my year in office were held on-line. This has proved to be a fully inclusive format, allowing each committee member to attend and take part.

Hybrid meetings from now on, combining face-to-face with on-line presence, will ensure full attendance of F&GP members at future meetings.

It only remains for me to thank every member of the F&GP Committee for all of their hard work, throughout the challenges of the last year.

Martyn Wheatley
The Master 2020-2021

SIM Hall, Short Report,

SIM Hall Limited's principle area of activity is as a Hospitality and Conference centre for many diverse organisations, as such it has - in keeping with government guidelines - been unable to function over the last eighteen months with a consequential adverse effect on it's financial performance.

With flexible furloughing we have been able to retain most of our key staff members and are now enjoying encouraging levels of enquiries and business, although at the time of writing the new omicron virus is creating a new level of uncertainty in the Hospitality industry which is very unfortunate.

Christopher Sawyer
Past Master

Membership Development & Promotion Committee Report 2020-21

This year, the Membership Development Committee was combined with the Promotion Committee to form the MD&P Committee.

Responsibilities for different aspects of the Committee's work are shared amongst its members:
Apprentice Warden – Elisabeth Jarvis;
Database and Clerk – Dr Misha Hebel;
Freeman Warden – Mr Simon Flower;
Induction Warden – Dr Stephen O'Connor;
Networking Warden – Mr Roger Goldsbrough;
Recruitment Warden – Mr Jim Webster;
Social and Technical visits – Mr Raul Abreu;
Social meetings – Mr Peter Meades; and,
Social events via the internet e.g. webinars and tastings, and London walks – Deputy Master Martyn Wheatley

These roles cover all aspects of promoting the Livery to the outside world via the medium of the new website and quarterly 'MeetUs' events, the early years of welcoming Apprentices, Freeman and Liverymen to the Livery, coordinating the mentoring and development

by their Apprentice Masters of Apprentices, and encouraging Freeman to become Liverymen at the appropriate moment.

The Committee is keen to promote networking, and put on a number of social events and activities. The Livery database supports networking by interest groups.

The Minerva Lecture in March was given by Sir James Hough, the world-leading expert on gravitational waves.

The quarterly webinar programme has flourished. Topics have included air quality in our cities, the disappearance of Malaysian Airlines flight MH370, a retrospective look at Covid, the RNLI in the City, and the genesis of the jet engine. Audience numbers have ranged up to ~200.

Thirst and hunger were quenched at an online wine and cheese event, which proved so popular that a port and cheese follow-up was arranged.

The Master took a number of members on a Westbourne river walk through London.

In October the Livery co-hosted, with the Company of Air Pilots, a Green Aviation event at our Hall. This was managed by Robert Seaman, a member of both Companies. It was well-attended by many experts from the aviation industry as well as members of Livery Companies, with the Lord Mayor and the Aviation Minister amongst others having speaking roles.

The ongoing pandemic meant that a number of physical meetings and social events had alas to be cancelled, and technical visits during the year were not possible.

My thanks go to all the members of the Committee for how much they have remarkably achieved under very difficult circumstances.

Charles Holroyd
Chairman



New Members

The following individuals Joined the Company in the last year.

Liveryman

Sorin-Ionut BALABAN
Neil FRANCIS
Alexander Robert HAMBRO
Michael Alexander KNOTT
Catherine Louise MOYES
Paul RAWLINGS
David SHARP
Robert Woodman STOPFORD
Daryl R WILLIAMS

Honorary Freeman

Anne Louise ROBERSTON

Freeman by redemption

Mason ADSHEAD
Christopher Charles BLOUNT
Anna Jewell DAVIDSON
Jake EATON
Godwin ENEMALI
Edward GOKMEN
Sebastian HORSTMANN
Gautam Panini KAMBHAMPATI
Destinie Maureen LAMBERT
José Alonso SOLIS-LEMUS
Alexander Andrew Nathan MASON
Sneha VERMA
Matthew David WARD
Thomas WILKINS

Freeman by servitutde

Mathew ARDERN
Benjamin BALL
David Avinoam GANCE
Mathew HILLS
Shahjahan MIAH
Hussam MUHAMEDSALIH
Zaibba PATEL
Sanjay PURI
Emma Rose SIMPSON
Edward TALBOYS
Joseph WARREN
Thomas Peter WILKINS
Jamie WILLIAMS

Freeman Scholars

Katie ADDINALL
Prarthana DESAI
Mairi DORWARD
Matthias FABIAN
Souvik GHOSH
Alastair HALES
Rahul KUMAR
Ruslan MURSHADOV
Miodrag VIDAKOVIC

Apprentices

Saakshi BHAT
Oliver Joseph BRIDGE
Charlotte CHANG
Alexander DRANE
Rosalind Patricia Ruri EDWARDS
Katie-Caroline HINDMARCH
William WILKINS

Senior Warden Elect

Philip Thomas

Philip joined the Livery in 2011, was invited onto the Court of Assistants in 2016 and served as Junior Warden 2020-21.

He holds a B.Sc. in Cybernetics and Instrument Physics from the University of Reading and a D.Sc. from City, University of London. His link with London began with his time at City, where he held the chair in engineering management for 15 years.

Philip worked previously as an engineer in both the chemical and nuclear industries. His roles with the UK Atomic Energy Authority included managing the decommissioning of the Windscale Advanced Gas Reactor to brown field conditions.

He served for six years as professor of risk management at the University of Bristol before retiring in July 2021, after which the University continued his link by appointing him as Visiting Academic Professor. He is currently acting as a consultant to the nuclear industry.

The Livery awarded him its Best Paper Prize in 2006 for an article outlining the J-value method of risk management he has developed, which is able to put an objective figure on the monetary value of a person's next day of life for 180 out of the 193 nations in the UN.

The results of applying the J-value to big nuclear accidents like Chernobyl or Fukushima, were reported extensively in the national and international press. J-value insights on managing the coronavirus pandemic have attracted similar coverage, and he has written a regular series of articles for *The Spectator* and *The Daily Mail* over the past 18 months.

He has published journal and conference papers on control, instrumentation, nuclear decommissioning, risk assessment, economics and law. His book, *Simulation of Industrial Processes for Control Engineers*, was published in 1999.



In Memorium

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

Honorary Freeman Arnold Wolfendale - 21 December 2020
Liveryman Richard Payne - 19 January 2021
Liveryman Dr John Rae - 1 February 2021
Liveryman Dr Lyndon Davies - 14 February 2021
Liveryman Dr Stuart Pollitt - 5 October 2021

Junior Warden Elect

Aubrey Dunford

Aubrey joined the livery in 2011, became a Trustee of the WCSIM Educational Trust in 2014 and was invited to join the Court of Assistants in 2015.

He graduated from Imperial College London in 1975 with a B. Sc(Eng) in Electrical Engineering (before Electronics was a recognised course!) and joined the Quality Department of the Semiconductor manufacturing of Mullard (Philips) in Southampton, working on developing testing of dynamic memories before moving on to developing testing of the 'new' teletext circuits, which were the first random logic LSI chips to be manufactured in the UK.

In 1980 he moved into technical sales and worked in a number of different roles before becoming the International Sales and Marketing Director in the Magnetic Products Division of Philips based in Eindhoven.

Since leaving Philips in 2000, he established his own consultancy supporting start-up companies with strategic marketing and commenting on the global electronic components industry and supports the trade associations in the UK and across Europe.

In 2009 he established a small medical device start-up company where he is the MD. His main interest remains in supporting Entrepreneurs particularly in the technical sectors.

He lives in Buckinghamshire, is married to Karen, and has two children and six grandchildren.



The Master Elect's Statement

Master Elect - Charles Holroyd
2021 - 2022

I shall start by thanking my two predecessors, together with the Clerk and the Assistant Clerk, for navigating the Livery through the worst of the Covid pandemic. Ken Grattan, Martyn Wheatley, Misha Hebel and Karen Fulton have worked tirelessly to ensure that activities have continued and that the Livery has maintained its commitment to members. The Master's Statement made at the beginning of the year traditionally outlines the Aims, Objectives and Hopes for the following 12 months.

Starting with the first two, I have five principal aims and objectives:

- To increase our membership numbers so that we continue to be a thriving Livery. We currently have around 200 Liverymen including seven Honorary Liverymen, 90 Freemen, 10 scholars and 40 Apprentices;
- Increase a broader attendance at our functions. We will do this by making them as interesting and relevant to members as we can, and as easy for possible to attend, either in person or virtually;
- Raise awareness of all that the Charity does;
- Make the best use of our new database for the benefit of all members, and ensure that there is an effective maintenance programme; and,
- Properly celebrate the award of our Royal Charter earlier this year with a big party.



My hope is for a happy and healthy year for all members, and the return to a normality closer to that we remember and enjoyed. History teaches us that there have been several pandemics in the past, and tells us that they last only a few short years before becoming much less virulent. Let this also be the case with Covid.



Senior Warden Philip Thomas - Master Elect Charles Holroyd - Junior Warden Aubrey Dunford





The Worshipful Company of
Scientific Instrument Makers

Calendar 2021/2022

Company events in bold

Committees in blue

City events in italics

Events with other organisations in standard

FEBRUARY 2022

10-2-22	Thurs	1900-2030	WCSIM Webinar – John Lancashire - Antikythera Mechanism	Zoom
25-2-22	Fri	1600 -2130	Education Trust Supper	Glaziers' Hall

MARCH 2022

12-3-22	Sat		WCSIM Walk – Following the Tyburn River	
14-3-22	Mon	1100-1600	Committee meetings – Education; Membership Development and Promotion	Glaziers' Hall
14-3-22	Mon	1800-2000	Meet Us event	Glaziers' Hall
24-3-22	Thurs	1900-2000	Spanish Cheese & Wine	Zoom
28-3-22	Mon	1130-1500	Committee meetings - Trustees, SIM Hall Ltd Exec F&G P	Glaziers' Hall

APRIL 2022

4-22			Edwards Lecture - TBC	City, UoL
1-4-22	Fri	1100 -1230	United Guilds' Service, St Paul's followed by lunch	St Paul's & Livery Hall
27-4-22	Weds	1500 -2230	Spring Court & Court Family Dinner	Glaziers' Hall
28-4-22	Mon	0900 -1700	SIMposium	Zoom

MAY 2022

12-5-22	Thurs	1900-2030	WCSIM Minerva Webinar – Katie Addinall on Advanced Measurement Technologies of Ballistic Toolmarks	Zoom
23-5-22	Mon	1100 -1600	Committee meetings – Education; MD and P	Glaziers' Hall
23-5-22	Mon	1800-2000	Meet Us event	Glaziers' Hall

JUNE 2022

3/5-6-22			Masters Weekend	Geneva
6-6-22	Mon	0900-1700	Primary Engineers Celebration event	Glaziers Hall
22-6-22	Weds	1830 -2230	Charter Banquet	Mansion House
24-6-22	Fri	1100-1500	Election of Sheriffs & lunch	tbc

JULY 2022

4-7-22	Mon	1130 -1500	Committee meetings - Trustees, SIM Hall Ltd Exec F&G P	Glaziers' Hall
25-7-22	Mon	1600 -2230	Election Court, church service & supper	St Margaret Lothbury & Hall

SEPTEMBER 2022

12-9-22	Mon	1100 -1600	Committee meetings – Education; Membership Development and Promotion	Glaziers' Hall
26-9-22	Mon	1130 -1500	Committee meetings - Trustees, SIM Hall Ltd Exec F&G P	Glaziers' Hall
29-9-22	Weds	1100-1500	Election of the Lord Mayor followed by lunch	Lunch venue tbc

OCTOBER 2022

20-10-22	Thurs	1500-2230	Admission Court & Dinner	Glaziers' Hall
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