IST

Supporting technical staff working in science, technology, engineering, digital, arts and media

IST Conference 2019

Talented Technicians Of Today

Birmingham Conference and Events Centre
Wednesday 18th September

#ISTconf2019 #istonline

KNF OHAUS METTLER TOLEDO CEM

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2019 Key Sponsors

PROGRAMME

09:30-10:00	Registration
10:00-10:15	Welcome and opening remarks
10:15-10:45	Keynote 1 - Mercian Theatre How to Discover Black Holes with a (Pretty Damn Good) Ruler
10:50-11:35	**SESSION ONE WORKSHOPS** Workshop 1 - Discover Workshop 2 - Rookeries 2 Workshop 3 - Imagine Workshop 4 - Rookeries 1 Workshop 5 - Mercian Theatre
11:35-12:05	Refreshment break and time to visit the exhibitions and view the posters
12:05-12:50	**SESSION TWO WORKSHOPS** Workshop 6 - Rookeries 1 Workshop 7 - Rookeries 2 Workshop 8 - Mercian Theatre Workshop 9 - Imagine Workshop 10 - Discover
13:00-14:15	Lunch break and time to visit the exhibitions and view the posters
14:15-14:45	Keynote 2 - Mercian Theatre President's Workshop Technical Lessons from Astronaut Training
14:50-15:35	**SESSION THREE WORKSHOPS** Workshop 11 - Rookeries 2 Workshop 12 - Imagine Workshop 13 - Discover Workshop 14 - Mercian Theatre Workshop 15 - Rookeries 1
15:35-16:05	Refreshment break and time to visit the exhibitions and view the posters
16:05-16:20	Announcement and presentation of the Trainee/Apprentice Award and the Roger Dainty Best Poster Prize
16:20 - 16:30	Close of day

Read on to discover more ...

CONFERENCE CHAIR & KEYNOTE SPEAKERS

Dr Helen Sharman CMG OBE FRSC FIScT

Prof. Alberto Vecchio

Professor of Astrophysics

St Philip's Cathedral

Birmingham Museum & Art Gallery

President's Workshop & Keynote Speeches

Dr Helen Sharman: President's Workshop

Technical Lessons from Astronaut Training

A talk about how astronauts train, with the formal and informal lessons that develop new recruits into successful team players, communicators and collaborators.

These 'space technicians' are recognised world-wide for their knowledge and practical skills. How can other technicians develop similar skills and achieve the recognition they deserve?

Professor Alberto Vecchio: Keynote Speaker

Keynote Title: *How to Discover Black Holes with a (Pretty Damn Good) Ruler*

In the early seventies scientists started to consider building laser interferometers that could achieve differential length measurements of the order of a thousandth of the size of a proton over a baseline of a few kilometres. This rather preposterous undertaking was driven by the attempt to test a fundamental prediction of Einstein's theory of general relativity: gravitational waves. After a few decades of work by more than a thousand scientists, engineers and technicians, the Laser Interferometer Gravitational wave Observatory (LIGO) started to operate in its "advanced" configuration in September 2015. A few days later, LIGO detected for the first time ever gravitational waves. This first detection turned out to be much more than the completion of a century long quest for the experimental validation of a key prediction of Einstein's theory: it was the birth of gravitational wave astronomy and the beginning of radically new explorations of some of the most violent phenomena in the cosmos. To date we have discovered ten binary black hole mergers. We have observed for the first time the collision of a pair of neutron stars that has set in motion a sequence of remarkable events tracked by astronomers across the electro-magnetic spectrum.

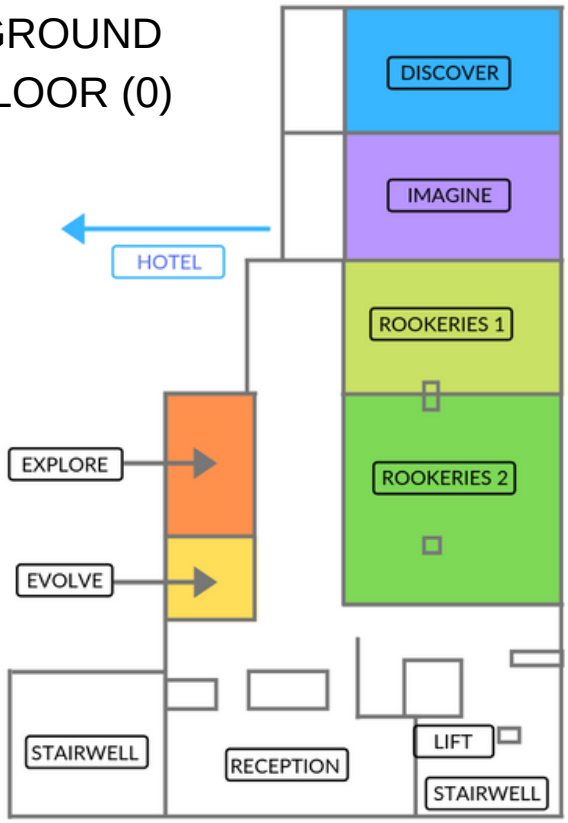
This is just the beginning of a new journey to unveil some of the best kept secrets of the Universe which is likely to provide many more surprises in the years to come.

2019 Key Sponsors

2019 Exhibitors

3D Floor Plans

GROUND FLOOR (0)



Discover & Imagine Rooms
Theatre Style (70 people max)

Rookeries 1 and 2 Rooms
Cabaret Style (50 people max)

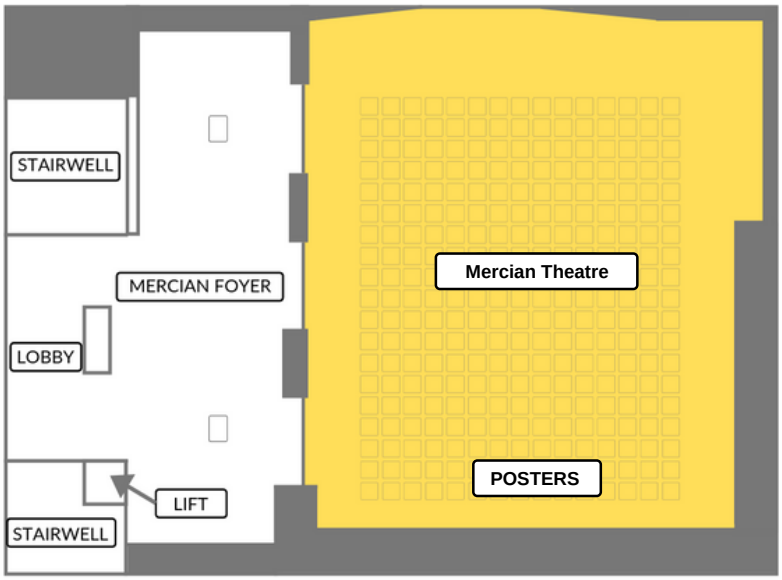
Explore Room - Meeting room
Table and Chairs (10 people max)

Evolve Room - Storage and Private
Conference Team Room

SECOND FLOOR (2)

Mercian Theatre
Theatre Style (300 people max)

Mercian Foyer
Sponsor / Exhibitor Stands
Refreshments & Catering



Symbols Legend

Alignment of each specialist topic is denoted by the symbols below.

- Creative Technologies
- Professional Development
- Science & Engineering
- Supporting Individuals / Inclusivity
- Technology (all areas)
- Health and Safety

Session One Workshops

Workshop 1 (Discover)

The Molecular Biology Workflow

Peter Rignall

Eppendorf

The Molecular biology workflow, including one of the most important molecular biology methods, polymerase chain reaction (PCR). It is used to exponentially amplify a specific segment of DNA for various downstream applications like DNA cloning (genetic engineering), gene expression analysis (RT-PCR, RT-qPCR), genetic fingerprinting (paternity testing, forensics), sequencing (Next generation sequencing) and many more. We will discuss current workflow steps including, sample purification, quantification, preparation, amplification and subsequent storage of samples.

Workshop 2 (Rookeries 2)

Hydrogen Fuelled Trains

Stuart Hillmansen

University of Birmingham

The mainline testing of HydroFLEX marks an important step in the development of a zero-carbon emission propulsion system that could help to decarbonise Britain's railway. The HydroFLEX pilot involves the fitment of a hydrogen powerpack to an existing Class 319 train, which would eventually allow it to run on conventional electrified routes as well as independently.

In this workshop we will talk about how this technology is adopted into the mainline system to deliver emission-free public transport.

Workshop 3 (Imagine)

Man Met's Technical Services Apprenticeship Programme

Natalie Kennerley

Manchester Metropolitan University

Come and hear why we engaged with Apprenticeships and designed a programme to meet our needs. How this is supporting us in our sustainability of technical staff; addressing our skills gaps now and for the future.

Manchester Metropolitan University's Technical Services is proud to showcase their Level 3 and Level 6 apprenticeship programmes. Their Level 6 programme is currently available to all staff within Manchester Met who meet the qualifying criteria.

"We are going places."

Workshop 4 (Rookeries 1)

Photography in 2019

Glynis Johnston & Gemma McKay

Manchester Metropolitan University

What methods of creating an image are popular in 2019?

Has social media and the need for immediate images influenced the way in which we create a photograph?

Come along to hear from Glynis and Gemma as they talk about modern photography.

Workshop 5 (Mercian Theatre)

A journey to ensure recognition for technical staff at Newcastle University

Mel Leitch & Calum Kirk

National Technician Development Centre

Like many, Newcastle University is currently on a journey to ensure recognition for its technical staff. Mel Leitch and Calum Kirk from Newcastle University will talk about the tools they have used to ensure their technical staff receive the recognition they deserve.

They will discuss how Newcastle have used professional registration, technical networking, the Technician Commitment and the National Technician Development Centre tools and crucially, how they have based strategies around technicians own ideas and suggestions. They will also lead an interactive discussion on the impacts technicians can have on an organisation.

Workshop 6 (Rookeries 1)

Demonstration of Mobile Eye-Tracking

Paul Aldcroft

Manchester Metropolitan University

Come and get a demonstration of how we enhance user experience and streamline the design of mobile apps, company websites, video games and digital media marketing campaigns at Usability Labs.

A Head Mounted Eye tracking system (SMI) using lightweight glasses can be used to record user interaction with smartphones, tablets or any other technology based system. The system allows completely free movement and can be used to track interactions as a user moves through a building.

Workshop 7 (Rookeries 2)

How can we improve Equality, Diversity and Inclusion for Technical Staff?

Denise McLean & Tamsin Majerus

University of Nottingham

This workshop will consider some of the areas where we have identified a need for improvement in opportunities for career development for staff in Technical roles.

We will encourage participants to identify their own areas of challenge and brainstorm possible solutions.

Finally we will consider how local, regional and national communities can share and enhance best practice.

Workshop 8 (Mercian Theatre)

Sharing Best Practice for Risk Assessments

Pamela Lithgow

Canterbury Christ Church University

This workshop will look at a number of different health and safety documents, including risk assessments, for a number of situations and from a number of institutions.

A discussion will follow on how these events are handled in each institution and the respective merits of each approach.

Workshop 9 (Imagine)

Technician Commitment: Impact and Progress

Jane Banks

Science Council

The Science Council have been working with partners all over the UK to carry out the Technician Commitment Initiative and this has been going from strength to strength.

In this workshop, Jane will be talking about how the Science Council can support organisations and individuals with their Technician Commitment pledges and will also talk about professional registration.

Workshop 10 (Discover)

pH Measurement in Theory and Practice

Scott Marsden

Mettler Toledo

How to get the best from your pH measurement equipment.

This workshop is based on the measurement of pH and conductivity, with an emphasis on pH. There will be a detailed theoretical analysis of pH and a brief theoretical analysis of conductivity. This workshop will also look at the correct choice of instruments and electrodes in relation to specific applications, as well as the importance of calibration and care of electrodes.

Session Three Workshops

Workshop 11 (Rookeries 2)

Acid Digestion through to Solvent Extraction: Versatility is key

Vincent Cordon

CEM

The Mars 6 is one of the most versatile sample preparation units on the market and can be used for:

- Acid digestion – prior to trace metal analysis
- Fatty Acid Methyl Ester Sample Preparation
- Solvent extraction
- Hydrolysis
- Chemical synthesis

Find out more during this interactive workshop plus see our new rapid solvent extraction instrument – the Edge.

Workshop 12 (Imagine)

Influencing Strategy in Government

Marie Oldfield

Oldfield Consultancy

Do you often wonder how to influence the big picture or get your work noticed in Government? This workshop looks at the impact of our work as scientists. We look at how we can be more visible as contributors and influence strategy with our output. We look at facilitation as well as structure of deliverables to achieve this.

This workshop will also talk about how to get your work noticed and information on evidence based decision making. The workshop will have examples on NATO, the Home Office EU Exit and Staff Courses.

Workshop 13 (Discover)

Celebrating Technical Staff in the Creative Industries

Natalie Kennerley

Manchester Metropolitan University

Celebrating Technical Staff in the Creative Industries - creating a bespoke professional registration for arts and media technicians.

For a long time arts/creative industries technical staff have felt alienated from applying for professional registration due to a perception of this being a more science based register. This workshop will highlight the progress nationally to address this issue which will ultimately lead to the creation of a bespoke registration specifically for this sector, giving arts and media technicians the recognition they deserve.

Workshop 14 (Mercian Theatre)

'Herding Cats' – Reflections on Leading Technical Teams

Kate Dixon

Manchester Metropolitan University

Hear from Manchester Met's Head of Technical Services as she reflects on her 15 years of experience leading and working with technical teams.

Kate joined Manchester Met as Head of Technical Services in September 2017 and has embarked on a programme of transformative change initiatives.

Workshop 15 (Rookeries 1)

Zine Making with Team Trident Press

Lisa Lorenz

Trident Press

This mindful per-zine making session invites you to ponder on your profession and to create your own little publication. Learn a new skill, reflect, and share your experiences with your colleagues. During the workshop you will make your personal one-page beak book that you can then fill with thoughts, memories and plans on being a technician. What did you want to be when you were a kid? What brought you here? Who inspired you? And where do you want to go next?

Lisa has been a member of Team Print at the Manchester School of Art as book binding technician since 2016.

THANK YOU TO ALL OUR SPEAKERS

The Institute of Science & Technology is very grateful for the support from our professional speakers, who truly do make the day a brilliant success.

The thoughts, opinions and expertise are their own and they have put a great deal of time of detail into the workshops to give delegates new and interesting insights, into their own work or into something they are particularly interested in.

Fancy being involved with our Conference in 2020? We would love to hear from you if you are interested in delivering a workshop in 2020. Please contact us on office@istonline.org.uk.

Dr Helen Sharman: Conference Chair & Keynote

Helen started her career with a degree in chemistry from the University of Sheffield before working in industry for GEC and Mars Confectionery. Helen then trained at the Yuri Gagarin Cosmonaut Training Centre, becoming the first British astronaut when she launched into space on board a Soyuz spacecraft on 18 May 1991. Helen became a science communicator after her space flight. More recently, she has started a new career in management, working at the National Physical Laboratory and at Kingston University London, before moving to Imperial College in the summer of 2015.

Professor Alberto Vecchio: Keynote Speaker

Professor Alberto Vecchio is the head of Astrophysics and Space Research at the University of Birmingham. He studied his undergraduate (Laurea) degree at Collegio Ghislieri and the Universita' di Pavia and obtained a PhD in astronomy from the Universita' di Milano in 1996. Professor Vecchio's research is focused on the use of gravitational radiation to study the universe in a radically new observational window and to test the behaviour of gravity in extreme conditions. He has published over 200 research papers.

2019 Key Sponsors

Workshop Presenters

Paul Aldcroft Manchester Metropolitan University

Paul is the Technical Team Leader for the Diagnostics, Mobile and Digital Computing team, which makes up part of the larger Specialist Computer Sciences Team at Manchester Metropolitan University.

Paul joined the University in May 2000, he currently manages a team in Specialist Computer Sciences and provides operational support to Manchester Mets Usability Lab (UX).

Jane Banks Science Council

Jane is the Business Development Manager at the Science Council. Jane leads on our work with employers to promote professional recognition of their scientific and technical staff.

Jane regularly attends events across the United Kingdom to talk about the Technician Commitment and what the Science Council can do to support technicians interested in professional development.

Vincent Cordon CEM

After graduating from the University of York, Vince worked for several years as a medicinal chemist helping to discover and develop new drugs and therapeutics to help treat a variety of diseases. It was during this time that Vince became more interested in the field of microwave science and decided to join CEM to work in their UK applications lab. Since joining almost 10 years ago Vince has had several roles as the company grew and is now General Manger for CEM's UK and Ireland operations and is still heavily involved in the lab and developing new applications for the variety of instrumentations provided by CEM.

Kate Dixon Manchester Metropolitan University

Kate is Head of Technical Services at MMU; Kate has a PhD in Molecular Biology: Molecular Genetics of Plant Pathogen Interactions, an MSc in Agricultural Biotechnology and a BSc (Hons) Biological Sciences. During the 1990s Kate worked in the biotechnology industry working for Applied Biosystems. From here, Kate joined the University of Manchester as Project Manager for the Medical Research Council funded biobanking project: The UK DNA Banking Network. Promoted to Operations Manager for UoM's Centre for Integrated Genomic Medicine. Kate was then promoted to Head of School Administration for Manchester University's School of Mechanical, Aerospace and Civil Engineering where she was responsible for developing and managing a team of 100 professional service staff. Kate joined Manchester Met as Head of Technical Services in September 2017 and has embarked on a programme of transformative change initiatives.

Lloyd Halligan Manchester Metropolitan University

Lloyd began his apprenticeship in September 2018 within the Specialist Computing and Digital Media teams. Lloyd is a game fanatic from Cheadle. His love for gaming and technology inspired him to teach himself enough knowledge to fix software and hardware, and thus pursue his passion of technology at the Manchester College, enabling him to gain a level two qualification. Lloyd's apprenticeship involves supporting his colleagues within the two areas, dealing with student and staff enquiries as well as supporting the teaching of classes. He spends one day per week at Trafford College on the taught element of the apprenticeship where he has the opportunity to engage with other learners from across Manchester and share experiences.

Stuart Hillmansen

University of Birmingham

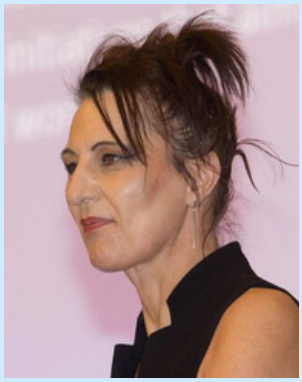
Dr Stuart Hillmansen is a Senior Lecturer in Electrical Energy Systems within the Department of Electronic, Electrical and Systems Engineering at the University of Birmingham. He completed a PhD in Imperial College London. His main area of research interest is in traction systems for use in railway vehicles, and modeling and measurement of energy consumption for railway systems (both AC and DC). His team have recently partnered with Porterbrook to develop a mainline tri-mode hydrogen train – the HydroFLEX. He is a member of the Birmingham Centre for Railway Research and Education. He leads the Railway Traction Research Group whose portfolio of activities is supported by the railway industry and government. He has authored a number of papers on railway energy consumption and presented the work at a number of international conferences. He is on the editorial board of the Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit.

Glynis Johnston

Manchester Metropolitan University

Glynis is the Technical Services Manager in Arts and Humanities at Manchester Metropolitan University. She manages the Media Team including support for Audio Visual and Photography, Digital Media and Theatre.

Glynis' background is working with computers and for the past 30 years or so, Macs, she has always worked in a technical or training role.



Natalie Kennerley

Manchester Metropolitan University

Natalie is Director of the National Technician Development Centre and Technical Services Development Manager at Manchester Metropolitan University. Her responsibilities include creating staff development opportunities for technical staff, upskilling of staff, and promotion of networking opportunities both internally and externally. She is also responsible for creating initiatives to support the Technician Commitment to ensure a motivated, skilled and sustainable workforce.
Natalie is also a member of the Institute of Science & Technology executive; and Equality & Diversity Officer for Technical Managers in Universities. She is also a Chartered Scientist and Fellow of the IST.

Calum Kirk

Newcastle University

Calum is currently one of the Research Impact Officers for the Faculty of Medical Sciences at Newcastle University. In this role he helps academics and research groups understand and capitalise on the broader implications of their research outside of academia. As part of Newcastle University's aims for fulfilling the 'Technician Commitment', he is also currently coordinating a project aiming to identify the ways in which Newcastle University's technicians are acknowledged in academic papers and impact case studies. Before his current role, Calum was the Research Technician managing the operation and research of the immunohistochemistry lab in the Northern Institute for Cancer Research, also at Newcastle University.

Mel Leitch

National Technician Development Centre

Mel is Deputy Director of the National Technician Development Centre and has considerable background in research science as well as a wide range of technical experience in psychopharmacology. This is complemented with extensive administrative and supervisory experience in the management of laboratories and laboratory personnel. Mel started his career as a trainee technician at Newcastle and progressed to Research Technician, Laboratory Technician Supervisor onto Acting Technical Co-ordinator before taking the role of Technical Manager at the Institute of Neuroscience which he has held for 13 years. Mel has always supported staff in encouraging them to expand their knowledge and skills. Mel does this in part by promoting professional registration with his staff and assisting them in the process.

Workshop Presenters

Pamela Lithgow — Canterbury Christ Church University

Pamela started her career as a researcher in the field of virology at the Pirbright Institute. Then, she moved into the field of chromosome biology at the University of Kent. From 2015 she has worked at Canterbury Christ Church university as Laboratories and Technical Services Director in the School of Human and Life Sciences. This role involves managing and coordinating core technical support across the School. She has completed the NEBOSH general certificate in Occupational Health and Safety in 2018 and has an interest in sharing good practice and improving H&S standards without restricting people's ability to complete the work required.

Lisa Lorenz — Team Trident Press

Lisa is a RISO printer and publisher, educator, and graphic designer. The focal point of her work is mental health, advocating for open-mindedness and conversations on the topic and related social issues. Originally from a small village in South Germany, she lives and works in Manchester.

Lisa has been a member of Team Print at the Manchester School of Art as book binding technician since 2016.

Tamsin Majerus — University of Nottingham

Tamsin is Associate Professor and Director of EDI in the School of Life Sciences, part of the Faculty of Medicine and Health Sciences, University of Nottingham. She has led the School Athena SWAN activities through 2 successful silver applications with a formal 1-2 days per week allocated to this role over the last approx. 6 years. In addition, she sits on the University SAT and is Faculty data champion. This has included running workshops and training sessions to support other SATs. Tamsin acts as a critical friend for other Schools within Nottingham and wider, including other UK HEIs and Edith Cowan University, Australia. She has been a regular ECU/AdvanceHE panellist since 2014 and more recently panel chair. Tamsin has mentored over 75 colleagues, primarily postdoctoral research staff, over the last 10 years. In 2017, she was awarded the VC's medal recognising her longstanding contribution to supporting Early Career Researchers, staff development and EDI.

Scott Marsden — Mettler Toledo International

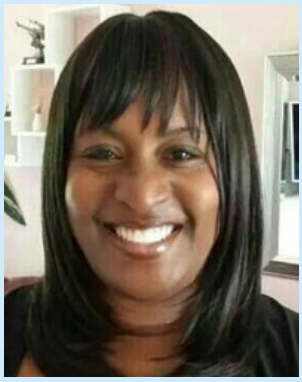
Scott is the Dealer Manager at Mettler Toledo International (MT-Online) and Ohaus Corporation based in the Nottingham region. He has been with Mettler Toledo for almost 8 years now. Scott is an expert on good pH measurement practices and his workshop will go into how to troubleshoot and ensure accuracy and efficiency in laboratory techniques.

He has many years experience having previously worked as a Product Manager in Instruments and Chemicals for Thermo Fisher Scientific before moving into his current role at Mettler Toledo.

Gemma McKay — Manchester Metropolitan University

Gemma has worked at Manchester Metropolitan University since November 2006 starting as started as a Technician in the AV Store. She transferred to Assistant Technical Officer in AV Store/Photography, then Technical Officer in Photography; leading on to her current role as Technical Team Leader in AV/Photography managing a team of six Technicians/Technical Officers.

Her experiences range from analogue and digital photography, film processing, darkroom printing, studio and location photography; plus, AV equipment from consumer to professional level. Gemma runs her own commercial photographic practice specialising in product, interior/exterior and landscape photography for a wide range of clients.



Denise McLean — University of Nottingham

Denise trained in Histopathology for six years and worked for the Department of Health before joining the University of Nottingham, where she is currently a Senior Technician. She has worked at the University of Nottingham for twenty years.

Denise is an Associate Teacher at the University of Nottingham and a STEM ambassador who has a passion for introducing young people to the world of science through outreach projects. She also sits on various groups and committees within the University. These include the Women's Staff Network, the Technical Working Group and the Faculty Technical Strategy Group and she is involved in the Equality and Diversity board for the Institute of Science and Technology.

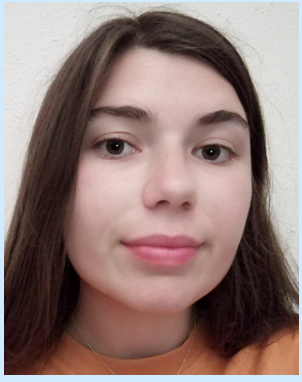
Marie Oldfield — Oldfield Consultancy

Marie is Director of Oldfield Consultancy, a defence and government based organisation. NATO, the Home Office and MOD are frequent clients. Marie holds Chartered Statistician with the Royal Statistical Society and Chartered Scientist as well as being a qualified Project Manager. Marie has managed multi billion pound procurement business cases for the MOD as well as multi million euro capability upgrades for NATO. Marie has driven strategy for analysis in a cross government setting and was invited to edit the current tool for excellence in analysis, the AQuA Book . In addition to this Marie has delivered operational training to Senior Leaders in the MOD and Government. Marie is often requested as an expert advisor and was invited to sit on a Validation Panel for The University Of Huddersfield in order to approve a new degree in Mathematics. Marie has released a paper on Control Group theory challenging fundamental Statistical assumptions around experimentation in the MOD and holds an additional Masters in Philosophy. Marie is an active STEM Ambassador.

Peter Rignall — Eppendorf

Peter is the Eppendorf Territory manager for the Midlands. He handles the sales, technical information and training within his region.

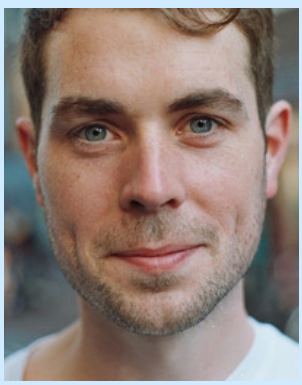
Peter has previously worked in sales roles at Andritz and Russell Finex, and before that he was a technical officer at VWR.



Nadine Shrimpton — Manchester Metropolitan University

Nadine is currently the Molecular Sciences Laboratory Technician Apprentice. Nadine was originally interested in humanities however, after being diagnosed with epilepsy 8 years ago; Nadine decided she wanted to follow her interest in chemistry. Her diagnosis inspired Nadine to start her career first at Manchester Metropolitan University as a technician in the hope to work her way to research and development.

Nadine tells us that she 'loves the constant progression and forward thinking attitude of the university'.



Graham Tinsley — Manchester Metropolitan University

Graham has worked at MMU for around ten years, beginning in the Cell and Molecular Biology and Physical and Analytical Chemistry labs before taking his current role as a Technical Officer in Environmental Science, where he supports teaching sessions and final year project students. In September 2018 he started a Laboratory Scientist degree apprenticeship at MMU. The degree aspect of the apprenticeship has been interesting and relevant to his job role, with clear and varied learning objectives. There are a wide range of optional units, which tailor the course to Graham's requirements. A large part of the apprenticeship is focused on personal and professional development. Graham also has planned pathways set out for him to ensure that he adopts a broad range of skills relevant to working in a laboratory environment and the wider industry.

Key Sponsors

CEM http://cem.com/uk/

CEM is a science based technology company that thrives on innovation and touches many different industries and scientific disciplines. Founded in 1978 by current CEO, Dr. Mike Collins, CEM has helped pioneer the field of microwave chemistry and have long been recognized for their expertise on the subject through publications and awards. For nearly 40 years, they have been designing and developing laboratory instruments and scientific methods (both microwave-based and non-microwave technologies) that are used by major companies, prestigious research institutes, and universities around the world.

KNF https://www.knf.co.uk

KNF Neuberger UK Ltd was established in 1978, based at their facilities in Witney, Oxfordshire. Their dedicated team of experienced pump engineers are responsible for the sales, marketing, servicing and technical support for the KNF product range within the UK and Ireland. In addition to their standard range of pumps they offer customer specific solutions and are able to tailor their pumps to suit individual requirements. They also have the capability to design and produce pump systems to meet our local customers' needs.

Mettler Toledo https://www.mt.com

Mettler Toledo is a multinational company offering weighing, analytical and inspection solutions along the customer value chain. They manufacture high-end products including industrial scales, laboratory balances, rainin pipettes and process analytics equipment. They provide process analytical technology to optimize crystallization, catalysed reactions, polymerization reactions and other processes.

Ohaus https://eu-en.ohaus.com

OHAUS has grown from a small scale repair business to an undisputed global leader in the weighing industry that manufactures reliable, full-featured yet easy-to-use balances and scales at an exceptional value. Customers on six continents trust their durable and highly-accurate products to meet their weighing needs. An American company headquartered in Parsippany, New Jersey, with satellite offices located in 20 countries around the globe and distribution partners in many additional countries, OHAUS' global presence allows them to better serve and respond to the needs of our customers.

Avidity Science

Avidity serves the research and healthcare industries on a global scale. Formed from several decades of experience in the purification and distribution of water as well as the supply and maintenance of premium laboratory equipment.

www.avidityscience.com

Edwards Vacuum

Edwards is a vacuum engineering company which manufactures and supplies vacuum equipment used in advanced manufacturing processes. Edwards provides equipment and services across numerous industries including semiconductor, research and development, scientific, industrial and emerging technologies.

www.edwardsvacuum.com

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www.rapidonline.com

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SLS has grown to become the UK's largest independent supplier of laboratory equipment, chemicals and consumables. Because of our independence, we are unique in our approach to sourcing and supplying the highest quality.

www.scientificlabs.co.uk

TecQuipment

TecQuipment is a provider of high quality educational equipment for engineering disciplines. Their laboratory products are used by students and educators across the world, in over 1500 establishments in more than 100 countries.

www.tecquipment.com

ThermoFisher Scientific

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www.thermofisher.com

Veolia

The UK leader in environmental solutions, Veolia provides a comprehensive range of waste, water and energy management services designed to build the circular economy and preserve scarce raw materials.

www.veolia.co.uk

Yorlab

Yorlab is a dynamic manufacturer and supplier of laboratory equipment specialising in the production of high quality scientific glassware, lab and plant apparatus and rigs, and the supply of consumables, chemicals and laboratory equipment.

www.yorlab.co.uk

University of Birmingham

Characterised by a tradition of innovation, research at the University of Birmingham has broken new ground, pushed forward the boundaries of knowledge and made an impact on people's lives.

HEaTED

Higher Education and Technician's Educational Development (HEaTED) is the UK's leading provider of professional development and networking opportunities for all disciplines of the technical workforce.

Manchester Metropolitan University

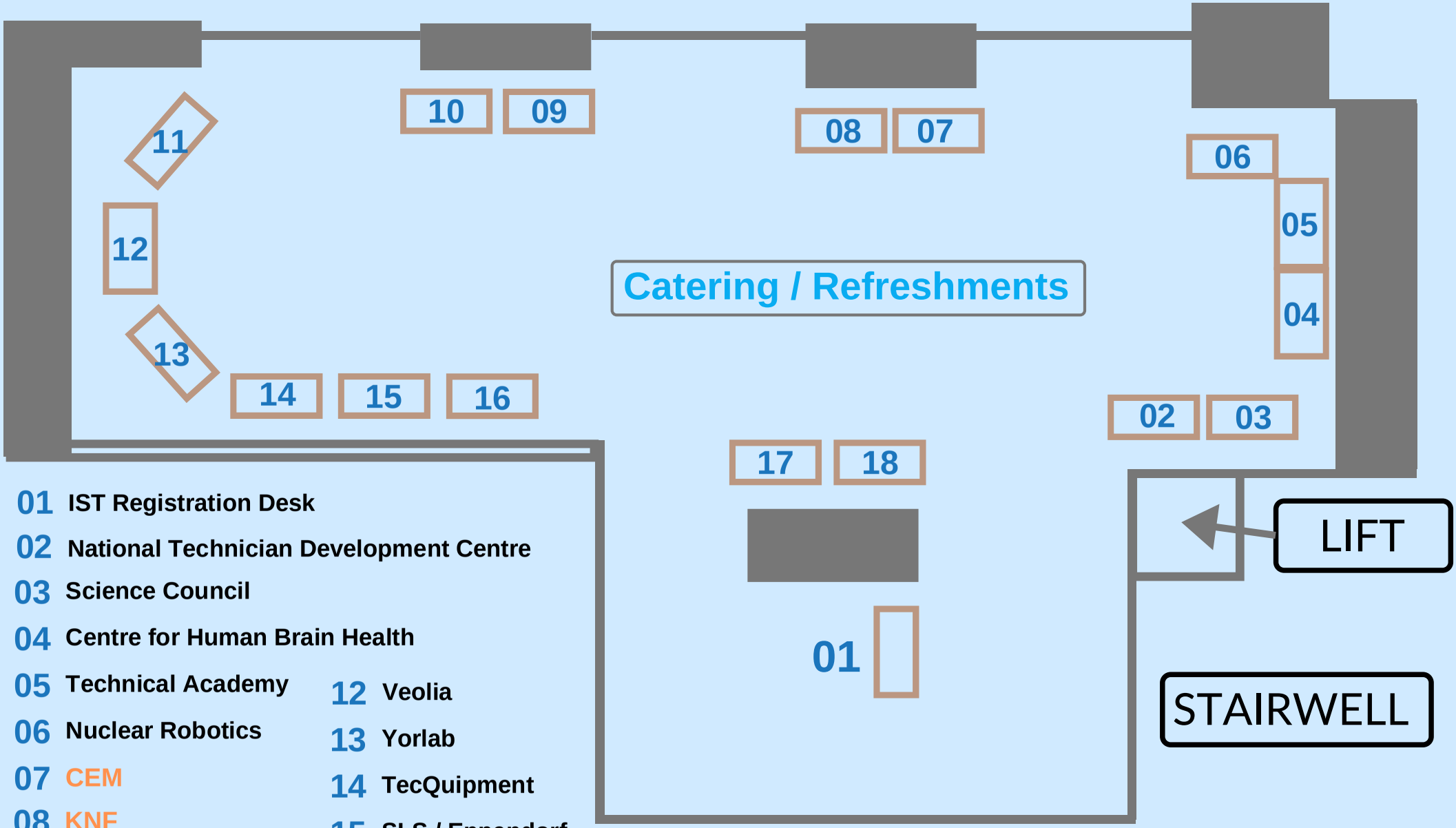
Manchester Met is a great, modern university, in a great global city with a driving ambition to discover and disseminate knowledge, to make higher education accessible and beneficial to all those with the passion and ability to succeed.

National Technician Development Centre

The NTDC for Higher Education is available to universities across the UK and provides HE Institutions with access to information, expertise and tools that will enable them to create a sustainable future for their technical staff and services.

Science Council

The Science Council provides the quality assurance system for those working in science. We set the standards for professional registration for practising scientists and science technicians across all scientific disciplines.



01 IST Registration Desk
02 National Technician Development Centre
03 Science Council
04 Centre for Human Brain Health
05 Technical Academy
06 Nuclear Robotics
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10 Mettler Toledo
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THE EXHIBITOR FOYER

Roger Dainty Best Poster Prizes Competition

Roger Dainty MBE, FIScT, 1946-2017

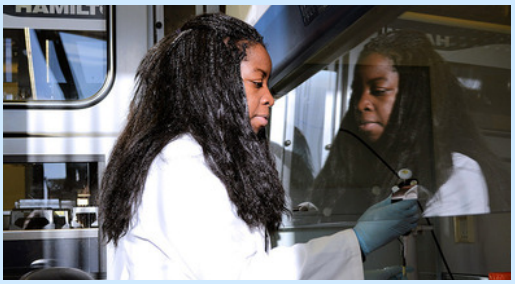
In honour and memory of our colleague and IST Fellow Roger Dainty MBE, FIScT, we have named our Conference best poster award after Roger.

Roger Dainty.
By kind permission from Ken Bromfield MBE Chartered FCIPD FIScT

The citation for Roger's MBE (in the New Year Honours 2012) reads: Roger James Dainty. Chief Technician, Biochemistry Department, University of Nottingham. For services to Scientific Research and Training. The recommendation leading up to the award states, "We are looking for people with exemplary service, which may be paid or unpaid, who have changed things, with an emphasis on practical achievement; have demonstrated innovation and entrepreneurship; are examples of the best sustained and selfless voluntary service or have delivered in a way that has brought distinction to UK life."

There is an adage flying around social media and national science publications currently; "Technicians make it happen", and this was so true where Roger was concerned. Having started his professional technical career as a Junior Technician at the University of Birmingham in 1962, by 2006 he had accumulated a huge portfolio of technical skills and knowledge derived from his practical and organisational experience throughout four decades of CPD. A Stem Cell Bank company, Future Health Technologies was in the process of setting up its operation a stone's throw away from Nottingham University and Roger was head-hunted to Make this science and technology company 'Happen'. He became its UK Managing Director. This was a huge technical and logistical assignment that exploited to the full his technical prowess. Roger subsequently led Future Health to achieving the Queens Award for Enterprise in 2010. It is in this respect, that Roger is a national role model. By relentless attention to his own training and skills development, he not only made it happen in the lab world, he also made it happen for himself and his family. This must serve as a powerful motivational source for technicians everywhere. What is more, this sort of application of skills is exactly what our country needs (an issue close to Roger's heart), and thus a worthy recipient of his IST Fellowship.

So as his MBE recommendation demanded, we have Roger Dainty, "A man with exemplary professional and voluntary service, who changed things, with an emphasis on practical achievement; having demonstrated innovation and entrepreneurship; and delivered them in a way that brought distinction to UK life." Throughout all of this he brought us fun and laughter, for which we shall ever remember him with great fondness…and smiles. He will, without doubt be sorely missed.



There will be an IST professional registration desk open all day, with IST staff and volunteers available to help you with your application or provide advice, should you need it, please drop in.

Because there is a limit on the size of some of the technical talks / workshops we will ask you to choose your 3 talks / workshops (on from each session) before you attend on the day, full delegate details will be sent before the event to all delegates. Please reply promptly to secure a place on a workshop. We cannot guarantee a place will be available on the day without pre-booking.

For professionally registered delegates (RSciTech. RSci, CSci), and also those delegates considering applying for professional registration, the conference and its workshops will contribute significantly to your professional and personal development (PPD). The programme includes 2 highly motivational talks from keynote speakers, plus 3 technical workshops (chosen from the 15 available) throughout the day.

The conference also provides opportunities to participate through poster presentations, networking and supplier / manufacturer stands. All these will add considerably to your personal development, annual PPD score, and enhance your CV.

All delegates who attend the conference for the full day will receive a CPD certificate following the day.

CPD and Awards

The Institute of Science and Technology (IST) proudly works with many partners to ensure that there are plenty of CPD opportunities for technical staff and specialists. Attendance at the conference contributes to your annual CPD as well as upskilling in the workshops, networking and also facilitating in discussions in the workshop sessions.

We will be holding several awards and prizes over the Conference which we are actively encouraging individuals to take part in or nominate individuals.

2019 Key Sponsors

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Developed by John-Paul Ashton and Kirsty Parkin