



Supporting the technical  
workforce in the creative,  
digital, engineering and  
science technologies



# e-Newsletter

#17 Autumn Edition - Nov 2020

Stay Safe & Take Care



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# CONTENTS

## WELCOME TO YOUR IST NEWSLETTER

COVID-19 Update ot Members	Page 03
Feature Image	Page 04
In Memory of Basil Boam	Page 05
News & Updates	Page 08
IST Virtual Conference 2020	Page 09
HEaTED Courses Available	Page 11
Supporting Individuals (DEI)	Page 12
Published e-Articles	Page 13
From the Archive	Page 14
Awards & Technical Spotlight	Page 15
Appointments to the RAC	Page 17
CPD Corner No. 09	Page 18
Registration Corner	Page 19
Online Resources	Page 20
Science Council Registrations	Page 21
Get Involved Today	Page 22

## THANK YOU NOTES

Thank You to all the contributions to this edition of the e-Newsletter.

Please contact the IST Office if you would like the opportunity to write an article for any of the future editions.

If you would like to contribute to the next e-Newsletter please contact us at the IST office:

[office@istonline.org.uk](mailto:office@istonline.org.uk)





# COVID-19 Update to Members

## **November 2020**

Dear Members,

We continue to send our best wishes to everyone in these challenging times and hope that you will all stay safe and take care. The year has changed the way we work and everyone is doing their best to adjust to the new way of life.

People's health and wellbeing is our priority in the current circumstances, and we have put a proactive plan in place to ensure that we are taking reasonable steps to protect this, and reduce risk to members, staff, or those attending meetings, while continuing our services and facilities. Most staff are working from home, so please feel free to contact us if you require any assistance, either by email or directly with any member of the team.

**For a check-in from the IST Team or our members - [Click Here](#).**

We are excited for our half-day virtual Conference on Wednesday 11th November 2020 which promises to have a variety of workshops for technical staff across all disciplines. We are looking forward to hearing from our speakers and we hope you can join us in the morning for as many sessions as your time will allow.

Once again, If you have any queries relating to the Conference, membership, registration or general business you can get in touch via email:

**Registration queries:** [registrations@istonline.org.uk](mailto:registrations@istonline.org.uk)

**Conference, General or Membership queries:** [office@istonline.org.uk](mailto:office@istonline.org.uk)

The IST are continuing to work as hard as we can to offer services to our members. Many of our operations are running, but can take longer than expected. If you have completed professional registration and would like to volunteer with us, we are looking for registrant assessors and CPD assessors to assist us with new applications and audits.

In these uncertain times, we would like to wish our members and their families the warmest of best wishes. Please do reach out to us if we can help in anyway.

**Joan Ward & the IST Executive**  
**[Institute of Science & Technology](#)**







# IN MEMORY OF BASIL BOAM

## From Apprentice to Honorary Life President A Technician's Journey



**Basil Boam BEM, Hon. FIScT**  
**1927 - 2020**

It is with sadness that I have to announce the death of our friend, colleague and a lifetime advocate of the technical community - Basil Boam BEM, Hon. FIScT.

We featured Basil's career in our April 2017 Journal, You can find the article below here: <https://istonline.org.uk/basil-boam-fellowship/>  
Many colleagues at the time commented on how Basil had assisted them in their careers or had helped find solutions to the many technical or managerial problems encountered.

His lifetime achievements were recognised by the IST especially the co-founding, with David Smart, of the University Bioscience Managers' Association (UBMA).

With his continued activities and influence in promoting the skills and impact of the technical community to employers and key organisations, his work brought further recognition of the roles and expertise of technicians throughout the UK. He was deservedly, awarded an honorary Fellowship of the IST.

Basil's career pathway began in 1943, at the age of 16, when he became an apprentice at the University of Sheffield. This was a short-lived experience, as at the age of 18 he was called up for active service. He eventually returned to the University in 1948 to recommence his career.

Over the subsequent years he learnt many skills in Physics, Genetics, and finally Botany. To his credit, Basil rose up the career ladder and became Laboratory Superintendent in the Department of Botany in 1972. He held this position until his retirement in 1986. Basil was duly awarded the British Empire Medal (BEM) in the 1986 New Year Honours list for his lifetime work in higher education. However, retirement didn't stop him contributing to new developments in the University. He continued working part-time for the University's Environmental Consultancy Services (ECUS) bringing a wealth of experience and knowledge to this fledgling company. This contributed to the successful establishment of ECUS as a spin out company which went on to deliver many successful projects.

# IN MEMORY OF BASIL BOAM

In 1983, whilst at the University of Sheffield, Basil and David Smart brought together bioscience managers from across the sector under the umbrella of "The University Biological Supervisors' Association (UBSA)" eventually changing its name to UBMA in April 2000. For their work, commitment and dedication in creating this key organisation, Basil was awarded the title of Honorary Life President and David Honorary Life Vice-President. David takes up the story, "When I started at Sheffield in 1977 and after a discussion with Basil regarding the lack of support given to Superintendents in the Biology sector, I suggested we start an organisation of Biology Superintendents so information and support could be exchanged.

Basil suggested I should try and join NABBS (National Association of Biochemistry and Biology Superintendents) but was told it was closed to anyone else from Sheffield as the Superintendent in Biochemistry was the representative. With that, in 1980, I said to Basil we should start our own. I wrote to about twenty Universities that had Botany and Zoology Departments to see if there was any interest. The response was very good, so I persuaded the head of Zoology to underwrite, if necessary, the cost of organising what was the first meeting of UBSA in Sheffield in 1983. We had about ten to fifteen Superintendents from different Universities attend and we did not need any financial support.



**Basil Boam BEM (centre) receiving his Honorary Fellowship from Terry Croft, with David Smart (left).**

His lifetime achievements were recognised by the IST especially the co-founding, with David Smart, of the University Bioscience Managers' Association (UBMA).

For the next few years Basil acted as Chairman and I was secretary to UBSA, and we persuaded different Universities to host the meetings. It was hard work, but we now had a network of colleagues who would give support on different problems common to us all.

The organisation grew year after year. In April 2000, the name was changed to the University Bioscience Managers' Association (UBMA). Today

# IN MEMORY OF BASIL BOAM

this highly respected association has more than 100+ members.

Basil was very happy in the end to see, what we started as a dream, flourish to what it is now a fantastic organisation for Biological Departments across Britain."

This legacy is reflected by the current UBMA Committee who said, "Although many of us have never met him, we are grateful for the legacy left by Basil in the shape of the UBMA. Along with David Smart, Basil formed an association that is still going strong today and as current members we continue to reap the benefits of his vision and commitment to lab superintendents. We feel the loss of Basil but will continue to take the association forward in his memory".

The current Chair of UBMA, Tony Dickson added, "The general feeling is that of the loss of a lovely guy who had a vision and together with David (Smart), followed it through to give us the association we have today that has benefitted so many. He will be sadly missed".

Arthur Nicholas, former Chair UBMA and currently Trustee at the Science Council commented "I only ever recollect meeting Basil on one occasion at UBMA's 2008 Manchester conference. As Chair of UBMA, I spoke and corresponded with Basil on a number of occasions; his interest and enthusiasm about UBMA was clear and encouraging especially for someone in his late 80s. I always found it a great pleasure interacting with Basil."

These are just a few of the comments I have received from so many people who have wanted to step forward to celebrate Basil's life and

career. He has touched so many peoples' lives over the many years.

Basil will be sadly missed but his legacy will live on. He was a great exemplar of the working career of a technician, one that has demonstrated true dedication, passion and commitment to his role.

It has been a privilege and an honour to work with Basil over the years - he was a great friend and colleague.

**Terry Croft MBE FIScT CSci**  
**IST Chairman**





# Important Updates and News

## Changes to the IST Executive Team



### *Thank You Philippa*

After many years of service to many areas of the IST, Philippa has decided that it is the right time to step down from her role as our amazing Education Officer. Philippa has been a vital member of the team and she will be missed dearly by all. Philippa has a wealth of experience and knowledge in so many areas of Education, Health and Safety, as well as IST bylaws and regulations.

We all wish Philippa the very best for the future and we are sure we will not lose contact with her. Thank you for all your years of dedication and tireless support.

### *Welcome to our new members of the Executive*

At the last AGM, a number of roles were available for IST members to be elected to the Executive, and it gives us great pleasure to welcome Arthur Nicholas who will be our next Education Officer.

Arthur is a Trustee of the Science Council and a Specialist Advisor to the National Technician Development Centre (NTDC). During a long career as a professional Technician, Scientist and Management practitioner, Arthur became highly knowledgeable of and skilled in the effective delivery of research, teaching and professional services in the Higher Education (HE) sector.



We also would like to introduce Marie Oldfield to the Executive. Marie is Director of Oldfield Consultancy which works across Private and Public Sectors in Statistics, Modelling and Artificial Intelligence. Marie is a Chartered Statistician and Chartered Scientist. Working with the Royal Statistical Society Marie sits on the Professional Affairs and Statisticians for Society committees.

Via Oldfield Consultancy Marie has close links into the Parliamentary Office of Science and Technology and has provided expert input into this Office. Marie's work as a Consultant is varied and can be from helping a TV Programme with a statistical problem through to Chemical and Biological Defence modelling or policy and strategy input to the MOD or UK Government.



### *IST Editorial Team*

The IST Editorial Team is still looking for volunteers and will be arranging to meet late November to make decisions about the Newsletters going forward and will be talking about the Journal publication for next year. If you would like to get involved please contact the office ([office@istonline.org.uk](mailto:office@istonline.org.uk))





# IST Virtual Conference 2020

Half-day Technical Conference for Members and the Technical Community

## KEYNOTE SPEECH



### How Scientists and Refugees Have Turned the Desert Green

*Prof. Anthony J. Ryan OBE*  
*Grantham Centre for Sustainable Futures*

## WORKSHOP THEMES



Sustainability



Career Trees



T-Levels  
Apprenticeships



Equality, Diversity  
& Inclusion



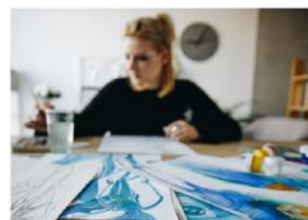
Creative



Current Experience

## OUR CONFERENCE IS FOR TECHNICAL STAFF ACROSS ALL DISCIPLINES

Supporting the technical workforce in the creative,  
digital, engineering and science technologies.



# IST Virtual Conference 2020

Half-day Technical Conference for Members and the Technical Community

<https://istonline.org.uk/ist-virtual-conf-2020/>

- 09.15 - 09.25** Welcome Remarks  
*Dr Helen Sharman CMG OBE FIScT, IST*
- 09.25 - 10.05** Keynote Speech  
How Scientists and Refugees Have Turned the Desert Green  
*Prof. Anthony J. Ryan OBE, Grantham Centre for Sustainable Futures*
- 10.10 - 10.40** Technical Career Trees  
*Lucy Hudson & Simon Breeden, University of York*  
**Plus Speakers:** *Graeme McAllister, Ian Helliwell & Andy Firth*
- 10.45 - 11.15** An Artists Career Journey  
*Martin Dexter, Manchester Metropolitan University*
- 11.15 - 11.30** Comfort Break
- 11.30 - 12.00** The benefits of professional registration & developments in technical education  
*Helen Gordon, Tom Cheek & Varshini Rajkumar, Science Council*
- 12.05 - 12.35** Technical Experience over COVID-19  
*Allison Hunter, Imperial College London*
- 12.40 - 13.10** Cultural Intelligence  
*Marsha Ramroop, Institute of Equality & Diversity Professionals*
- 13.10 - 13.30** Close of the Day  
*Terry Croft MBE FIScT CSci, IST*



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Page 10



# New Courses Available Now

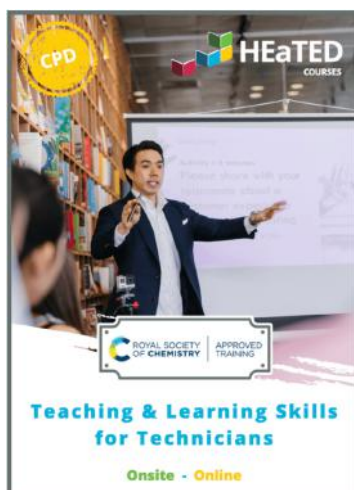
<https://www.heated.org.uk>



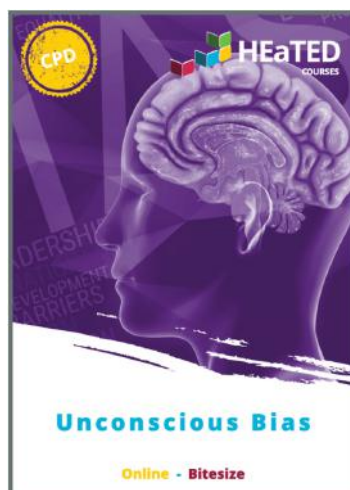
HEaTED provides opportunities for the professional technical workforce to engage with CPD and training courses, as well as delivering networking events for all specialities.



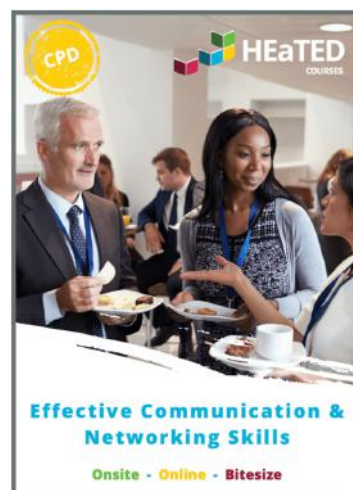
Get practical insight into project planning, from project initiation to building project schedules.



Become equipped with tools to teach, demonstrate and contribute effectively to the student experience.



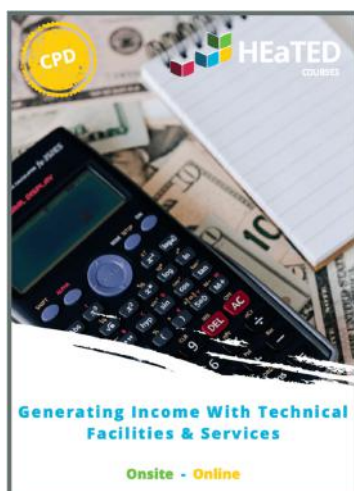
Learn how bias affects our behaviour and systems and what we can do to help mitigate our biases.



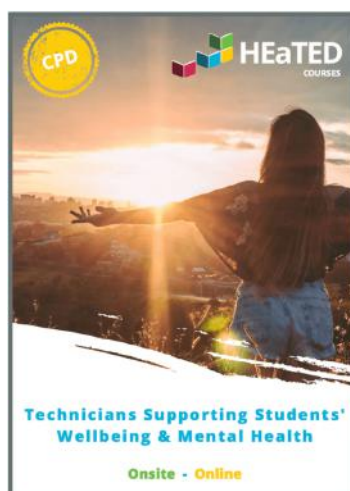
Equip yourself with the practical techniques required to improve effectiveness of your communication.



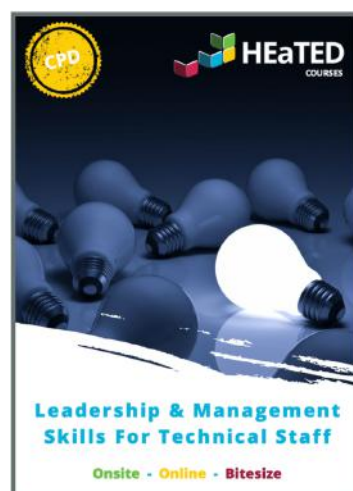
Gain the essential skills to effectively support an apprentice in a technical environment.



Learn how to maximise income generation using technical resources and services you already have.



Learn how to deliver strong pastoral care that can make a positive impact on student learning outcomes.



Explore different theories of leadership & management alongside your own experiences in the workplace.

HEaTED, our Partners, have a great variety of courses available to book now. Technical Staff Development is essential to our core values and this training provides plenty of opportunities for technicians in these challenging times.

# Supporting Individuals

Institute of Equality and Diversity Professionals



**We are very fortunate to have a representative from the Institute of Equality and Diversity Professionals (IEDP) speaking about Cultural Intelligence at our Conference in November 2020. The IEDP is the professional body of equality, diversity, inclusion and human rights practitioners. It is an independent body, run by practitioners for practitioners.**

## About the IEDP

The UK's Institute of Equality and Diversity Professionals was formally launched in Birmingham on 26 January 2009. This was largely in response to research carried out by the then Learning and Skills Council which identified the need for such an organisation.

The Institute promotes excellence in equality, diversity and human rights professional practice. The Institute is an independent professional body, run by our members. All activities are funded by individual and corporate member subscriptions and by corporate sponsorship.

The Board has commissioned Not For Profit Business Services to provide the Institute with a full secretarial service, enabling Board members to concentrate on core objectives instead of using valuable time on administrative matters.

**You can find out more about the IEDP Here**

Home About us News Events Membership Accreditation Consulting & Lobbying Diversity Voices Contact Blog

Members' Login

**iEDP** Institute of Equality & Diversity Professionals

Search ...

**Equality & Diversity News**

**Police matters for diversity and inclusion**  
Barry Boffy is the Head of Diversity & Inclusion at...

**This is Us second annual conference**  
This is Us is hosting its second annual, and...

**Roland Chesters shortlisted for a National Diversity Award**  
Please join us in celebrating Roland Chesters...

**Learning, accreditation and professional development for equality and diversity professionals**

The Institute of Equality and Diversity Professionals is the professional body of equality, diversity, inclusion and human rights practitioners. It is an independent body, run by practitioners for practitioners..

**IEDP Newsletter**  
Click here to read our latest e-newsletter



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Page 12

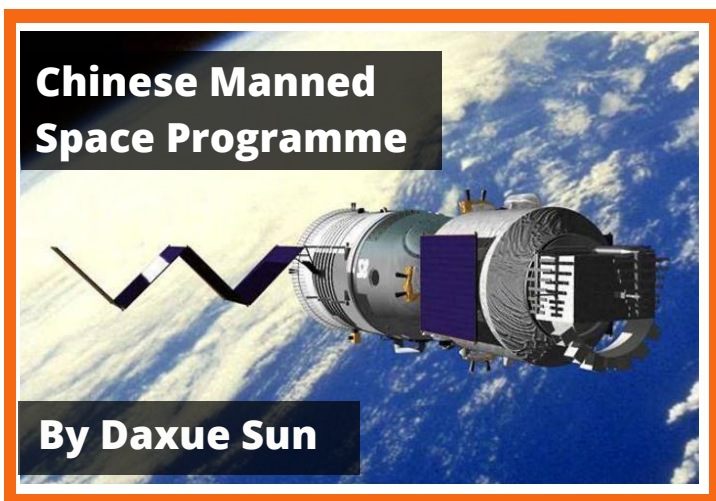


# Selection of Published e-Articles

Our members contribute to articles for the e-Newsletter



To maximise your time for reading, we have condensed our articles onto this page so you can choose what to read. **Click on any of the boxes below to read the article.**



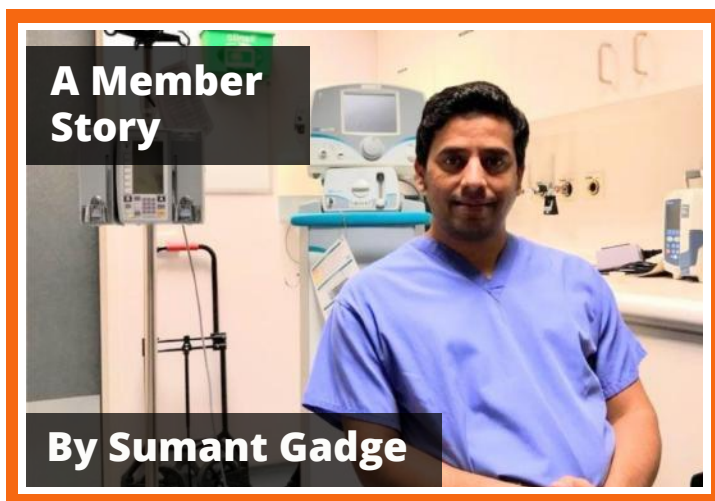
**(a)** A brief history of the Chinese Manned Space Programme by Dr Daxue Sun.



**(b)** The role of laboratory technicians and of the efficient public - private collaboration against Covid-19 disease.



**(c)** Stem - Cell Research has shown encouraging results that could help treat a variety of conditions that can affect millions of human beings.



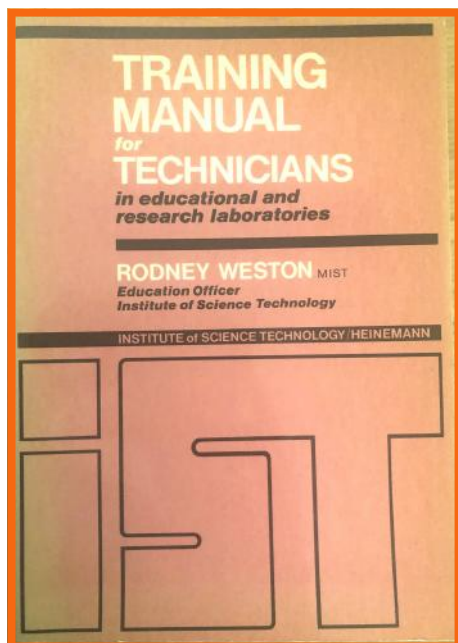
**(d)** IST Member Sumant Gadge gives a summary brief about his career and role as a health - care practitioner, as well as his registration volunteer work.

*(a) Image one is Figure, Shenzhou 1, credit to baike.baidu.com (b&d) Photos taken by authors (c) stock photo.*

# Training Manual for Technicians

By Rodney Weston *MIST*, IST Former Education Officer

#Archive



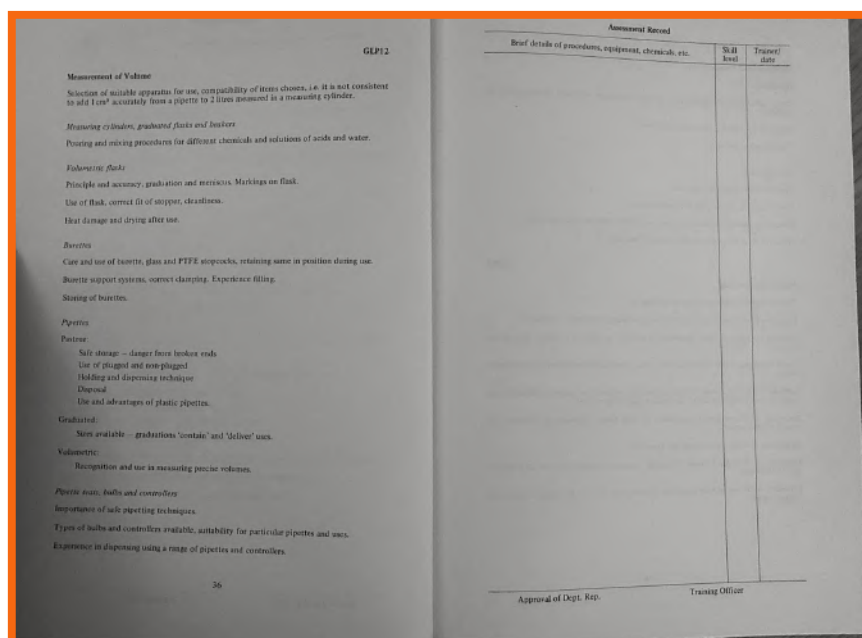
**From the Archive:** In 1983 Rodney Weston, the then Education Officer, prepared a training and assessment manual for technical staff working in an educational background as well as those working in research laboratories. This was specifically designed to assist trainee technicians in the recording of their education covering the following topics:

- Safety
- General Laboratory Procedures
- Instrumentation
- Biological Techniques (Incl. animal husbandry and technology)
- Chemistry
- Physics
- Electron Microscopy
- Geology
- Photography
- Electronics
- Mechanical Engineering

It is interesting looking back at a very general training system which is primarily focused on supporting the key fields of science and engineering. It is fantastic to hear that the IST and partners are working on giving more access to the creative arts training and development, to ensure technicians from every industry are supported.

It was felt by the Institute of Science Technology, that there was a need for a sector wide approach to the training of technicians in universities, polytechnics, colleges, schools and related research establishments. Such an approach should meet career requirements of technicians by providing a recognised basic standard of technical competence, which would complement the TEC and SCOTEC educational qualifications.

This manual was key for organisations that have a commitment to training, but where they may have lacked the time and expertise to prepare their own detailed formal training programmes.



The training record was a valuable resource for individuals to record learning from a detailed syllabus and to log the information and details of the techniques/steps required to carry out an exercise.

It is incredible to see how far training and development programmes have gone to support technical staff over the years and there is plenty of work being carried out at present and much still to do to support technicians of the 21st Century. Sometimes, looking back at different models of training and recording, helps everyone to see a different perspective so that you can chose the best method that works for you.



# Awards and Technical Spotlight

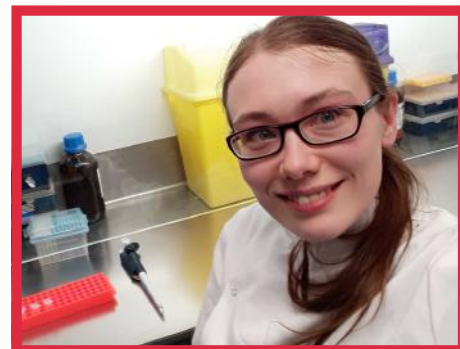
Congratulations to winners, commendations and appointments

#TechnicianJourney

## Science Council CPD Awards

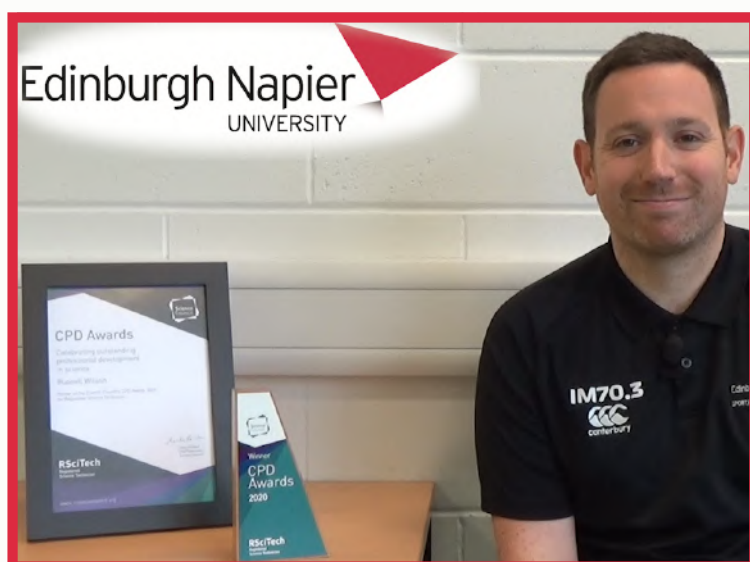
### RSci Winner - Sarah McCafferty

Sarah is a research technician in the Genetics Core of the Edinburgh Clinical Research Facility. Her role requires her to perform DNA and RNA extractions on a range of input samples, QC checks on extracted nucleic acids, and PBMC isolations from whole blood. She is also responsible for developing new methods within the sample processing service and completing associated health and safety documentation. Sarah is a member of our building's sustainability committee and the University of Edinburgh's Technician Steering Committee.



### RSciTech Winner - Russell Wilson

Russell works at Edinburgh Napier University as a Laboratory Technician within the Sport, Exercise and Health Sciences subject group. His role involves supporting the teaching and research activities within the group by providing technical support to undergraduate and postgraduate students, as well as academic members of staff. He works as part of a team of 3 technicians that support four laboratories which include a biomechanics, sport injuries, exercise physiology and a research laboratories. His main duties include the maintenance, calibration, and preparation of laboratory equipment whilst also demonstrating its use to both students and staff.



### CSci Commendation - Dr Kranthi Maniam

Kranthi is currently a "Marie Curie Fellow" at the Materials Innovation Center (MatIC), University of Leicester and working on the project "Investigation of Halide Free Ionic Liquids for the Electrodeposition of Zinc and Zinc Alloys (INHALE)". The main responsibility is to execute "INHALE" project from concept to commercialisation. He will be applying the skills and knowledge gained during his work experience on the development of efficient, low toxicity and environmentally friendly halide-free ionic liquids as electrolytes for the electrodeposition of zinc and zinc alloys, used for corrosion resistant coatings applications and address the problem of reducing the material usage by employing light weight structures.



# Awards and Technical Spotlight

Congratulations to winners, commendations and appointments

..... #TechnicianJourney

## CSci Commendation - Caroline Jarrett

Caroline joined the University of Bristol as a Research Technician in Clinical Sciences in 2006, and then in 2016 became the School of Physics Deputy Technical Manager. She is now the Faculty Technical Manager for the Faculty of Science, providing strategic and operational technical expertise and leadership across the faculty whilst also managing the Faculty of Science mechanical, glass and electronics workshops. Caroline says that gaining CSci Status in 2018 felt like a significant personal achievement, and she firmly believes her professional registration, along with the ongoing associated CPD has played a key part in facilitating her professional progression.



## RSci Commendation - Manik Puranik

Manik is currently working as a Senior Teaching and Research Technician, based in the Food and Nutritional Sciences Department in the School of Chemistry, Food and Nutritional Sciences and Pharmacy. Her role involves supporting students in laboratory practical classes and in research laboratories. Responsibilities include providing technical support activities for undergraduate and postgraduates practical classes, which include setting up labs, equipment, preparation of bacterial cultures, media preparation as well demonstrating class practical. I also work as a part-time Research Technician for a BBSRC project for two days, where my responsibilities include providing technical support activities associated with preparing and analysing samples.



## Stevie Awards

### Amro Heikal - Stevie Awards Winner (Technology Category)

Amro has been awarded for the Innovation in Technology Development – All Other Industries. The nomination title was High-Performance Water-Base Fluid Performs As An Environmentally Friendly Alternative To Oil-Base for Drilling Challenging Wells in Kuwait.

[Read more here.](#)



**CONGRATULATIONS TO EVERYONE ON YOUR  
FANTASTIC ACHIEVEMENTS.**



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Page 16



# Awards and Technical Spotlight

Congratulations to winners, commendations and appointments

..... #TechnicianJourney

## Well done to the new Appointments to the Registration Assessment Committee

### Sam Gaunt - Registration Assessment Committee Member



"I am extremely proud to represent the IST on the Registration Assessment Committee, continuing to support the fantastic work of The Science Council in maintaining robust, high-quality, consistent professional standards.

Drawing on experience in education, research, commercial settings and as an RSci assessor, I hope to contribute to quality control activities in the management of the registration process and am committed to supporting aspiring registrants to achieve professional recognition by attaining the highest levels of excellence in Science.

I currently use my technical skills running a commercial R&D department within Precision Livestock Farming, using scientifically sound science to develop new technologies, finding solutions to the continuing industry challenges.

I am passionate about the inclusion of women in Science, STEM issues, benefits of professional registration and membership of the IST."

### Sumant Gadge, Registration Assessment Committee Member



"I am very much excited to be a part of such a great institution.

This opportunity brings a new vision to my professional world and I hope to be able to contribute to the success of the committee."

**The Registration Assessment Committee (RAC) is a sub-committee of the Registration Authority (RA). It has responsibility for overseeing the assessment of applications for registration on behalf of the RA and oversee training and development for assessors to ensure consistency of standards across the Science Council's registers.**

**[Click Here For Terms of Reference](#)**





## The Five Golden Rules

### CPD Links:

IST RESOURCES

CV BUILDER

HEaTED|STEM

ALISON COURSES

FUTURE LEARN

OPEN LEARN

OPEN UNIVERSITY

UDEMY

### Assess -> Focus -> Plan -> Monitor -> Reflect

#### (1) Assess

Assess your abilities, knowledge and skills with respect to the requirements of your current role, and keep in mind your aspirations. Asking for opinions from your colleagues and networks is a valuable way to gain other perspectives. There is plenty of guidance on the IST website and can be found by clicking [here](#).

#### (2) Focus

Ask yourself; (a) what is your goal? (b) What do you need to learn to achieve this goal? (c) How will you go about learning it? (d) How long will you need to learn it?

#### (3) Plan

Your plan should be logical with clear steps and you should set short and long term actions. Highlight potential obstacles and find out how you plan to overcome any. Examples include, attending training courses, mentoring, reading articles, networking at Conferences and events.

#### (4) Monitor

You must monitor your CPD along the way. Tools like the NTDCs [CPD Central](#) is an ideal way to record your CPD Live (contact the office for more information). To ensure your CPD is effective, you need to follow three more rules (1) keep excellent time management, (2) commit to checking on progress and problems and (3) motivate yourself to complete different activities and track what you do.

#### (5) Reflect

This is the most important part of your CPD to ensure success. CPD is not a tick box exercise and should reflect on the quality of your learning. Ask yourself; (a) what have you learnt? Which method did you use to learn? How did it benefit yourself AND your organisation? How can you use this new knowledge in a practical way? Is there room for further learning? Why did you carry out the activity?

At the IST, we set out our PPD report forms so that it directs you to focus on the most effective ways to capture your CPD. This is why for each activity, you will be asked to outline the activities values that you have obtained; (a) learning outcomes, (b) skills acquired, (c) how the activity has benefited the quality of your practice, (d) how the activity has benefited users of your work, (e) reflections.

**John-Paul Ashton, MIScT RSci**  
**IST Registration Manager**







# Registration Corner

## Why Registration is important to your CPD?

### Alison Dolling, Registered Science Technician

As a teaching technician it's important to my practice that I continually develop my knowledge and scientific experience. Part of that for me was registering as a Registered Science Technician. Not only is it a really good way of showcasing my abilities as a technician and scientist its also a great way to look back at all I have done in my employment life and take stock in where I have been and where I want to be professionally. When I did my registration application, I was really worried that because I mostly worked in teaching undergraduate students, I wouldn't be able to cover all the criteria. However, I found that a lot of the work I did showed my experience and breadth of knowledge.

One of the great opportunities I've had from becoming a Registered Science Technician is that it's a great way to showcase the skills I have gained with my experience. I didn't have the traditional qualification when I started as a technician but my years of experience were validated by joining the register. It also showed my employer how committed I am to my profession and to my professional development. As part of the registration you must do a certain amount of different CPD. This pushes me every year to do different course or get experience doing different things every year. I think it's also given me the confidence to try new things for example I was always really nervous when doing public speaking but decided a few years ago that I would like to speak at a conference which I did.



### Dr Kranthi Maniam, Chartered Scientist

Professional registration is an important achievement for any scientist/engineer/technician and gives them the confidence to face the wider community. I got motivated towards professional registration during my postdoctoral at the University of Manchester (United Kingdom), inspired by my supervisor Dr. Stuart Holmes who is a Chartered Scientist; I have applied for professional registration. With a rich research experience and a genuine interest to learn, I joined the IST as a member to become a part of the scientific community and make a significant contribution. Continuous Professional Development (CPD) helped me to build my portfolio in further training, helped me to achieve qualifications and certifications such as NEBOSH-Level 3, NACE – CIP Level 1, Certified Project Management (CPM) and improve my standards as a Chartered Scientist. Since becoming professionally registered, I achieved an Assistant General Manager (Technical) position within a span of five years and set myself out as an example to others. I feel that my recognition as a Member and Chartered Scientist shall inspire the potential researchers/engineers/technicians to become professionally registered.

I strongly believe that professional registration shall enhance the confidence of an individual and provide them an opportunity to demonstrate their competency to perform the professional work to the necessary standards with commitment, differentiate them in today's fast-paced environment. I would highly recommend any individual to become professionally registered and collaborate with the community, build up the network for better prosperity of the people and society.

# Online Resources

Free Resources available for our members

## Coding & Programming Courses

[Codecademy offers free coding classes in 12 programming and markup languages, including Python, Ruby, Java, JavaScript, jQuery, React.js, AngularJS, HTML, Sass and CSS.](#)

## Plenty of Subject Areas

[Harvard offers online access to course materials, lectures, programs & educational content for free.](#)

## Science Council Resources

[Diversity and Inclusion Progression Framework - Benchmarking Report 2017](#)

[Useful Resources for members, registrants, applicants and support for scientists & apprentices](#)

## University-level Courses

[EdX has university-level courses developed by schools and non-profit organisations. These programs are offered for free to users, with courses from universities such as MIT and Harvard.](#)

## Web Development

[General Assembly is a for-profit education organization, but they also offer a free course that promises to teach students the basics of web development.](#)

## World Class Education - For Everyone, Anywhere

[Khan Academy was developed in 2006 as a non-profit educational organization, with the distinct goal of educating students online for free.](#)

## National Centre - Sharing Access To Knowledge Exchange



[The NTDC are offering a platform for knowledge exchange to increase access to sharing of key resources. You can access free resources available such as approved methodology. You can also contribute to the resources by contacting them at \[covid-19-resources@ntdc.ac.uk\]\(mailto:covid-19-resources@ntdc.ac.uk\).](#)



# The Science Council have a number of resources available for registrants - click here to view

**CSci**  
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Chartered Scientists demonstrate effective leadership, using their specialist knowledge and broader scientific understanding to develop and improve the application of science and technology by scoping, planning and managing multifaceted projects.

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Chartered Science Teachers combine the scientific knowledge and understanding with the skills and expertise required by individuals involved in the practice and advancement of science teaching and learning.



## Contact us and find out more

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[www.sciencecouncil.org](http://www.sciencecouncil.org)



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# GET INVOLVED TODAY

How you can get involved with the IST?

## Contribute to our Newsletter

IST members have the opportunity to contribute to the electronic newsletters and our international annual Journal. Contact [office@istonline.org.uk](mailto:office@istonline.org.uk) to request an opportunity to publish an article. It can also provide you with CPD points for your annual reviews. The Institute of Science and Technology is Your Professional Body, so make the most of your member benefits and consider writing for the Newsletter and Journal.

## Contribute to our Journal

Do you have any articles that you feel would be of interest to the technical community? Or do you need to promote a relevant article or event? We are looking for articles to include in the next IST Journal, so if you do have anything then please get in touch. Please contact us at [office@istonline.org.uk](mailto:office@istonline.org.uk) or you can get in touch with the editors below.

## Special Thanks to This Month's Contributors:

The IST gives its thanks to their members and individuals who have contributed to this edition of the newsletter: The family, friends and colleagues who reviewed the Basil Boam article. Philippa Nobbs, Arthur Nicholas and Marie Oldfield. Alison Dolling and Sumant Gadge for their input into registrations corner.

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