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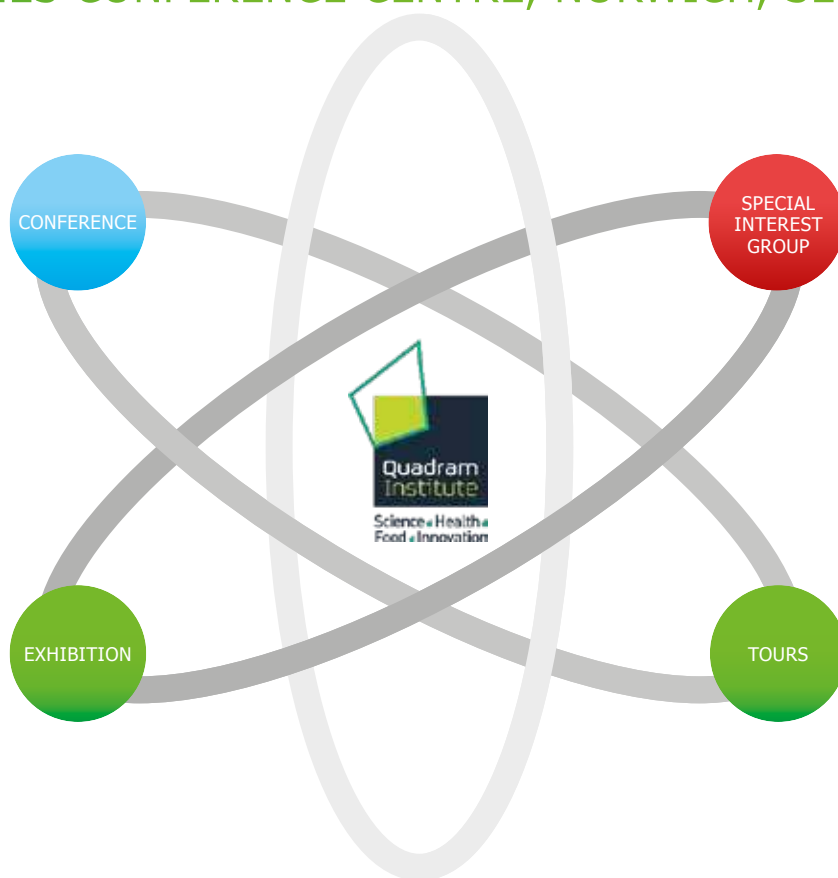
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RESEARCH, TRANSLATION INNOVATION AND LEARNING

NORWICH RESEARCH PARK, QUADRAM INSTITUTE AND THE UNIVERSITY OF EAST ANGLIA

JOHN INNES CONFERENCE CENTRE, NORWICH, SEPT 9 2019



S-LAB AND UKSPA SUPPORTERS



UK Research and Innovation



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Organiser details at www.effectivelab.org.uk or www.ukspa.org.uk

PROGRAMME

09.15 onwards	John Innes Conference Centre: Registration (refreshments available) for all sessions except A4, Exhibition and 09.30 Bob Champion and Quadram Tours	
10.45 – 11.45	Keynote Session A1: The Translational Journey at Norwich Research Park - Partners, Vision and Case Studies David Parfrey, Executive Chairman, Anglia Innovation Partnership LLP	
11.00 – 12.00	Session A4 and Tour of New Science Building on UEA Campus (This is a mile from the John Innes Conference Centre so please go directly to the NSB foyer for the tour at 11.00, walking afterwards to the Conference Centre for lunch)	
11.50 – 12.50	Keynote Session B2: Quadram Institute - Next Generation of Food and Health Research Nick Goodwin, Chief Operating Officer, Anglia Innovation Partnership LLP, Nora Claudio Familiar, NBBJ, and Andy Parker, BuroHappold Engineering	
11.50 – 12.40	Specialised session B4 on The Technician Commitment in Research Settings	
12.40 – 14.00	Lunch and 13.15 Quadram Institute General Tour	<i>Exhibition Hall</i>
14.00 – 14.40	Breakout Sessions and Tours	C1-C5
14.50 – 15.30	Breakout Sessions	D1-D4
15.30 – 16.00	Refreshments	<i>Exhibition Hall</i>
16.00 – 16.40	Breakout Sessions and Bob Champion Tour	E1-E5
16.45 – 17.30	Quadram Institute General Tour	
18.00 ish	NHS Endoscopy Unit within Quadram Institute Tour (tbc - check on registration)	
19.15 – 21.30	Informal drinks and opportunity to eat in central Norwich at Adam and Eve pub, 17 Bishopgate, NR3 1RZ (on both Sunday, 8th and Monday, 9th September)	

ABOUT THE PROGRAMME

Sessions - All sessions are 40 minutes long. Speakers are asked to allow 10-15 minutes for questions and discussion, and to end promptly so that people can move between sessions. Most sessions don't have chairs so we ask delegates and speakers to work together to be prompt in starting and finishing.

Presentations - Speaker biographies and presentations will be made available via the S-Lab and UKSPA home pages (www.effectivelab.org.uk or www.ukspa.org.uk) or a link in our post-conference survey email.

Cloakroom/Luggage - There is a luggage storage area but items are left at the owner's risk.

Moving Around - Conference sessions are being held at two locations, and two other buildings have tours, so please orientate yourself by looking at pp.19-20, and note the following points:

- It is a 5-10 minute - and potentially confusing - walk between the John Innes Conference Centre (JICC) and Quadram Institute (and the nearby Bob Champion Building), and a 20-25 minute walk or drive/park time between these sites and the New Science Building on the UEA campus. The 11.00 tour of the latter can only be combined with the 09.30 Bob Champion or Quadram Institute tours if people move speedily.
- Half the afternoon sessions take place in Quadram Institute. Delegates attending these will be guided over from the John Innes Conference Centre Registration Desk at 13.45 with a few minutes taken to point out features of the building en route. Anyone switching sessions between JICC and Quadram Institute at 14.40 will need to leave promptly and walk quickly between the two venues.
- If people are attending both the pre-break (D1, D2) and final (E1, E2) sessions in Quadram they may prefer to buy drinks at the cafe there rather than spending 10-15 minutes walking to and from the JICC.

Twitter - Please use hashtag **#QuadramTranslation**.

SESSION SUMMARY

	1. Translation (in JICC Auditorium)	2. Quadram (in JICC Auditorium)	3. General (in JICC Wilkins Room)	4. General (in JICC Franklin Room)	5. Tours (pre-bookable)
9.30 - 10.15 Tours					Bob Champion Tour Quadram Institute General Tour
10.45 - 11.45 (A1) or 11.00 - 12.00 (A4)	A1 The Translational Journey at Norwich Research Park: Partners, Vision and Case Studies <i>David Parfrey, Anglia Innovation Partnership</i>	A2 No Session	A3 No Session	A4 Multi-Disciplinary Science Teaching and Sustainable Services UEA's New Science Building: Briefing and Tour <i>Judith Mayne and Matthew Bennett, University of East Anglia</i>	A5 No Norwich Research Park Tours at this time but note: New Science Building briefing and tour on main University of East Anglia campus - not the Conference Venue - at 11.00 (see A4)
11.50 - 12.50 (B2) or 11.50 - 12.40 (B4)	B1 No Session	B2 Quadram Institute - Next Generation of Food and Health Research <i>Nick Goodwin, Anglia Innovation Partnership, Nora Claudio Familiar, NBBJ, and Andy Parker, BuroHappold</i>	B3 No Session	B4 The Technician Commitment in Research Settings - Experience at the John Innes Centre and Relevance to Other Research Institutes <i>Dr. Clare Stevenson, John Innes Centre</i>	B5 Note: Quadram Institute General Tour at 13.15
	1. Translation (in Quadram UG55c)	2. Quadram (in Quadram UG55a/b)	3. General (in JICC Wilkins Room)	4. General (in JICC Franklin Room)	5. Tours (pre-bookable)
14.00 - 14.40	C1 Translation in The University of Glasgow's Clinical Innovation Zone: An Open, 'Triple Helix', Approach <i>Ruth McLaughlin, University of Glasgow</i>	C2 Quadram Institute - Creative Design Approach to Budget <i>Nick Goodwin, Anglia Innovation Partnership, Nora Claudio Familiar, NBBJ, Nick Flanagan, AECOM, and Lynden Spencer-Allen, Ramboll</i>	C3 Design, Operation and Safe Work Practices in Containment Facilities <i>Dr. Liz McMinn, Wellcome Genome Research</i>	C4 Technical Career Development <i>Jean-Paul Ashton and Joan Ward, Institute of Science and Technology, Sara Bacon, National Technician Development Centre, University of Sheffield</i>	C5 Quadram Institute Estates/Plant-focused Tour
14.50 - 15.30	D1 The Translational Journey - Q&A on A1 and C1, and International Experience of Designing for Translation <i>Panel with speakers from A1 and C1 plus Jane McElroy, NBBJ</i>	D2 Quadram Institute - An Integrated Approach to Ventilation Enhances Performance, Safety and Sustainability <i>Nick Goodwin, Anglia Innovation Partnership LLP, and Richard Walder, BuroHappold</i>	D3 Researching the Research Process - Understanding What Drives Effective Collaboration, Creativity and Collaboration <i>Dr. Becky Hayward, BuroHappold</i>	D4 Technical Roles in Research Settings <i>Burcu Bronner-Anar, Wellcome Sanger Institute, and Dr. Clare Stevenson, John Innes Centre</i>	D5 No Tour
16.00 - 16.40	E1 The Translational Journey - Continuing Discussion and Potential for an UKSPA Special Interest Group <i>Interactive discussion</i>	E2 Collaborative and Flexible Working in Science Environments - What Lies Ahead? <i>Dr. Patricia Hart, Quadram Institute, and colleagues</i>	E3 No Session	E4 Making Laboratories More Sustainable - Practical Steps for Technical Managers and Users <i>Matthew Bennett, University of East Anglia</i>	E5 Bob Champion Tour
16.45 - 17.30					Quadram Institute General Tour

KEYNOTE AND RELATED SPEAKERS

The Translational Journey at Norwich Research Park - Partners, Vision and Case Studies



David is a highly proficient leader of transformational change and progression in the science, research and innovation sectors who has led some of its largest investments in recent years and has an enviable track record for delivering successful outcomes. He has an unwavering aspiration to create an environment that will enable the UK to be a global centre for ground-breaking Bioscience research and is passionate that research should change lives.

In his previous role as Executive Director, Finance and Campus Operations at BBSRC David was pivotal in creating a number of significant UK research and innovation campuses that have built ecosystems around world-leading research institutes to enable researchers to deliver tangible benefits for social and economic good.

DAVID PARFREY
Executive Chair, Anglia Innovation Partnership LLP

Quadram Institute - Next Generation of Food and Health Research



Nick is no stranger to Norwich Research Park having held numerous positions with institutes and organisations based there. He works closely with the Partners of the Park, the resident and regional business community and funding bodies to grow the Park's footprint and facilitate further growth. Nick's background is in science, having completed a PhD at the University of East Anglia (UEA). His post-academic career began with a research and business development role also at UEA that led to strategic programme management positions supporting capital developments on Norwich Research Park. Recent accomplishments include the design and development of Centrum and the Quadram Institute. Nick also works to support the John Innes Centre and The Sainsbury Laboratory in making the case for next generation research and innovation facilities.

NICK GOODWIN
Chief Operating Officer, Anglia Innovation Partnership LLP

Quadram Institute - Next Generation of Food and Health Research



Nora is an Architect in NBBJ's London studio with extensive experience working across healthcare, science and higher education projects throughout the UK. Bringing exceptional design skills to all her projects, Nora has a special interest in complex, user-driven schemes and the facilitation of clear visual communication, empowering clients in the design process.

Most recently Nora had led the work on the Quadram Institute, a transformational research facility where world class scientists work alongside clinicians at the forefront of food science, gut biology and healthcare research, to deliver bench-to-bedside research and to develop new clinical therapies related to health and nutrition. Other significant projects include Royal Liverpool University Hospital, GlaxoSmithKline Transformation Programme and City, University of London.

NORA CLAUDIO FAMILIAR
Senior Associate, NBBJ

KEYNOTE AND RELATED SPEAKERS

Quadram Institute - Next Generation of Food and Health Research



After successfully establishing BuroHappold's first India office in Pune, Andy has taken up the mantle of leading its work in the Health and Scientific sectors. His experience of delivering specialist buildings around the world, and of working in multi-disciplinary environments, gives him good grounding in the design of complex and specialised environments in health care, pharmaceutical and research laboratories.

Andy has previously held the roles of Project Manager and Head of Mechanical Services in BuroHappold, and before that led the development of Amec's Pharmaceutical business in Europe and their Industrial and Pharmaceutical business in China. More recently, He has worked recently on Quadram Institute and Imperial College London's Michael Uren Biomedical Engineering Hub.

ANDY PARKER
Science and Technology Global Sector Lead and Partner, BuroHappold Engineering

International Experience in Designing for Effective Translation



Jane McElroy is a Principal in NBBJ's London office, one of the world's leading healthcare architecture practices. During the past twenty years she has focused primarily on healthcare design, ranging from a highly acclaimed ambulatory care and diagnostic centre to major academic teaching hospitals. In particular, she directs her efforts to initial briefing, stakeholder engagement, medical planning and the integration of these aspects within the broader design process. Jane has also had the unique experience of working on several of the largest new medical centre projects in the UK and Ireland enabling her to amass a significant body of data and critical insights about this building type. She will discuss how this experience has helped to shape and develop the Quadram Institute design in Session D1. Jane is also on the Executive Committee of Architects for Health and a Design Council Cobe Building Environment Expert.

JANE MCELROY
Principal, NBBJ

Quadram Institute - An Integrated Approach to Ventilation



Richard has led the MEP design for Quadram Institute - which he discusses in session D2 - and a number of other large research laboratories and has extensive experience in designing and delivering containment Level 2 & 3 facilities, clean rooms and co-located clinical facilities to HTM standards. These have involved close working with lab planners and users to deliver elegant engineering designs which meet current needs whilst building in the flexibility which is so often critical to institutions working in changing scientific environments. He also has considerable experience in collaborating with wind tunnel facilities to deliver optimal site solutions.

Richard joined BuroHappold in 2005 after graduating from Loughborough University with a 1st Class Masters Degree in Mechanical Engineering.

RICHARD WALDER
UK Science and Technology Lead, BuroHappold Engineering

A SESSIONS 10.45 - 11.45 (A1) OR 11.00 - 12.00 (A4)

A1 **Keynote Session: The Translational Journey at Norwich Research Park - Partners, Vision and Case Studies**

David Parfrey, Executive Chair, Anglia Innovation Partnership LLP

- **The Strategic Context of Translational Research: Norwich Research Park is home to a wealth of world class research on soil, food, health and the interactions between them. It brings together four independent world-renowned research institutes; the John Innes Centre, Quadram Institute, Earlham Institute and The Sainsbury Laboratory, together with the University of East Anglia and the Norfolk and Norwich University Hospitals NHS Foundation Trust – all located within a 1km radius. Over 3,000 scientists and clinicians work in these partner organisations and the Park. The Park already hosts 115 companies and its Master Plan anticipates many more within the target areas of biotech (agricultural, industrial and medical); food, health and microbiome; and genomics and bioinformatics.**
- **Most delegates are likely to stay in this room for the following keynote session on Quadram Institute.**

A2 **No Session**

A3 **No Session**

A4 **Multi-Disciplinary Science Teaching and Sustainable Services at The University of East Anglia's New Science Building: Briefing and Tour (Location is on UEA Campus, not Conference Venue)**

Judith Mayne, Laboratory Manager, and Matthew Bennett, Sustainable Laboratories Manager, University of East Anglia

- **The £30m New Science Building opens on the main UEA campus in late September 2019. It includes three floors of flexible laboratories for Biology, Chemistry, Computing, Engineering, Environmental Sciences, Pharmacy and Physics teaching. The space is designed to promote interactive learning and multi-disciplinary collaboration to inspire tomorrow's scientists and engineers.**
- **It also has innovative building service features, including user ability to easily switch off or set up fume cupboard use.**
- **NOTE THAT THIS BRIEFING AND TOUR TAKES PLACE ON THE UEA CAMPUS, NOT AT THE CONFERENCE VENUE - DELEGATES SHOULD EITHER GO DIRECTLY THERE TO JOIN THE BRIEFING/TOUR FOR A PROMPT 11.00 START FROM THE FOYER OR ALLOW AT LEAST 30 MINUTES TO DRIVE/PARK OR WALK FROM THE CONFERENCE VENUE.**

A5 **No Research Park Tour**

Note pre-Conference Bob Champion Research and Education Building Tour and Quadram Institute General Tour, both at 09.30.

B SESSIONS 11.50 - 12.40 OR 12.50

B1 **No Session**

B2 **Keynote Session: Quadram Institute - Next Generation of Food and Health Research**

Nick Goodwin, Chief Operating Officer, Anglia Innovation Partnership LLP (and previously BBSRC Project Manager for the Quadram Institute), Nora Claudio Familiar, Senior Associate, NBBJ, and Andy Parker, UK Science and Technology Global Sector Lead and Partner, BuroHappold Engineering

- **The new Institute conducts translational research and clinical care around four themes - Food Innovation and Health; Gut Microbes and Health; Microbes in the Food Chain; and Population Health - and houses 300 researchers in addition to clinicians and support staff.**
- **Its first and second floors contain research laboratories and office floors for Quadram Institute Bioscience, the upper ground floor hosts an NHS Clinical Research Facility (CRF) and the lower ground contains an NHS endoscopy unit - with 40,000 outpatients a year, one of Europe's largest.**
- **This keynote session will describe the vision, purpose and outcomes of the design and delivery of the building, focusing on the stakeholders' engagement and the building's design principles. It will also explain how a clinical trial unit that engages with the general public connects a hospital department to a research laboratory.**
- **Most delegates are likely to remain in this room from the preceding keynote session on Norwich Research Park.**

B3 **No Session**

B4 **The Technician Commitment in Research Settings - Experience at the John Innes Centre and Relevance to Other Research Institutes**

Dr. Clare Stevenson, Senior Scientist, John Innes Centre

- **An introduction to the Technician Commitment, what it means and what is involved as a signatory, and the key issues in implementing it within research settings.**
- **How the John Innes Centre - an independent centre of excellence in plant science, genetics and microbiology employing almost 400 staff - has approached meeting the Commitment with examples of initiative and good practice under the four key areas.**
- **Lessons learnt of relevance to other research institutes, at Norwich Research Park and beyond.**

B5 **No Tour**

But note Quadram Institute General Tour at 13.15.

C SESSIONS 14.00 - 14.40

C1 Translation in The University of Glasgow's Clinical Innovation Zone: An Open, 'Triple Helix', Approach

Ruth McLaughlin, Innovation Manager, College of Medical, Veterinary and Life Sciences, University of Glasgow

- **The Clinical Innovation Zone (CIZ) is located at the Queen Elizabeth University Hospital and brings together the University's world-leading research, NHS Greater Glasgow and Clyde and the brightest industry partners from around the world to form a 'Triple Helix' approach to facilitate precision medicine/clinical innovation within a fully integrated healthcare system enabling commercial innovation, stimulating business growth and maximising patient benefit.**
- **The CIZ currently has space for industry to co-locate on site with academia and the NHS, enabling and fostering open innovation, indeed, the buildings are designed to provide opportunities and spaces for like-minded people to connect and collaborate.**
- **Offering close proximity to clinical expertise and innovation and bringing together key initiatives and infrastructure across the hospital campus, the CIZ is a highly supportive, flexible and growing ecosystem at the largest acute medical facility in Western Europe, integrating initiatives in genomics, imaging, pathology, clinical trials, data and industry engagement that have clear routes to economic impact.**

C2 Quadram Institute - Creative Design Approach to Budget

Nick Goodwin, Chief Operating Officer, Anglia Innovation Partnership LLP (and previously BBSRC Project Manager for the Quadram Institute), Nora Claudio Familiar, Senior Associate, NBBJ, Nick Flanagan, Director of Cost Management, AECOM, and Lynden Spencer-Allen, Technical Director, Ramboll

- **In this follow-on session to the Quadram Institute keynote (B2) the project team will focus on the integrated design approach to develop the client's vision in relation to the architectural design, landscape strategy and structural vision within the cost framework.**

C3 Design, Operation and Safe Work Practices in Containment Facilities

Dr. Liz McMinn, Senior Health & Safety Adviser and Biological Safety Officer, Wellcome Genome Research

- **Factors to consider in the design and build of containment laboratories.**
- **Relevant regulations standards and guidance.**
- **Operation of the laboratories - who, what, where, and how?**
- **Laboratory safety management.**

C SESSIONS 14.00 - 14.40

C4 Technical Career Development

John-Paul Ashton, Executive Support Officer, Institute of Science and Technology, and Specialist Advisor, National Technician Development Centre; Dr. Sara Bacon, Centre Manager, National Technician Development Centre; and Joan Ward, Finance Officer/Deputy Chair, Institute of Science and Technology

- **CPD and why it's important to technicians and the Technician Commitment.**
- **Overview of the new updated version of the NTDC CPD/apprentice-trainee software (being released in September 2019).**

C5 Tour

Quadram Institute Estates/Plant-focused Tour

TOURS AND NETWORKING EVENINGS

Priority for tours is given to those who have pre-booked, and to attendees from outside Norfolk. However, there may be last minute availability - please check at the Registration Desk. Quadram Institute will also arrange a future tour for Norfolk-based attendees unable to get on a tour today - please leave contact details at the Registration Desk if interested. Tours are available of:

Quadram Institute (see p.11) - general 30 minute tours will leave the John Innes Conference Centre (JICC) promptly at 09.30, 13.15 and 16.45. There will also be guided 'mini' tours for those walking from JICC to attend the 14.00 Quadram-based sessions C1 and C2). These will leave the Registration Desk at 13.45 and will view, and have explained, the external features of the building en route, and – after a short orientation outside – will pause in the atrium to view the interior before proceeding to the session rooms. This may be a sufficient overview of the design for some attendees. (The main difference with the fuller tours is that the latter will go onto higher floors to externally view laboratory spaces through glass walls).

There will also be a specialised tour of Quadram building services at 14.00.

UEA's Bob Champion Research and Education Building (see p.13) - general tours going into laboratory spaces at 09.30 and 16.00.

UEA's New Science Building (for multi-disciplinary STEM teaching: see p.13) - a tour at 11.00 going into laboratory spaces and also covering the ventilation system and fume cupboard user controls. The NSB is currently being completed and has been known during construction as Building 60. It does not yet feature on most online or UEA maps but is situated at the western end of the campus, next to the Julian Study Centre. It is approximately one mile walk, and two miles (slowish) drive from the Conference Centre. (If driving, also allow time to find parking). Hence, those wishing to take the tour - and not taking the 09.30 Bob Champion or Quadram Institute tours (which are doable but requires a fast walk between the two locations) - are advised to go directly to the New Science Building foyer for a prompt 11.00 start rather than to the John Innes Conference Centre. They will then be guided to the main venue once the NSB tour is over.

The NHS Clinical Endoscopy Unit with Quadram Institute (see p.11) - subject to final confirmation from the NHS limited capacity tours will be available around 18.00.

Informal evening drinks will take place at 19.15 at the Adam and Eve pub in central Norwich (NR3 1RZ) on both September 8th and 9th to provide networking opportunities for delegates.

D1 The Translational Journey - Q&A on A1 and C1 and International Experience of Designing for Effective Translation

David Parfrey, Executive Chair, Anglia Innovation Partnership LLP, Jane McElroy, Principal, NBBJ, and Ruth McLaughlin, Innovation Manager, College of Medical, Veterinary and Life Sciences, University of Glasgow

- Q&A with regard to sessions A1 and C1.
- David and Ruth will have spoken in previous sessions but there will also be a brief presentation by Jane McElroy on her UK-relevant experience on three US projects: Building for Transformative Medicine, Brigham & Women's Hospital, Boston (short-listed for an S-Lab Award in 2017); Nationwide Children's Hospital Research Buildings, Columbus, Ohio; and the University of Utah Skaggs Pharmacy Research Building, Salt Lake City, Utah.
- Jane will focus on the integration of clinical care with research functions, the development of laboratory and write-up areas over time and the effects of providing collaborative working spaces, all of which have influenced NBBJ's design of the Quadram Institute.

D2 Quadram Institute - An Integrated Approach to Ventilation Enhances Performance, Safety and Sustainability

Nick Goodwin, Anglia Innovation Partnership LLP, and Richard Walder, UK Science and Technology Lead, BuroHappold Engineering

- Overview of the MEP design and sustainable design features at the Quadram Institute.
- Optimising supply and extract for comfort, energy efficiency and safety.
- Optimised performance, safety and sustainability through integrated design of fixed and mobile benching layouts; positioning of services and equipment; fume cupboards and responsive manifolded air handling controls; and gas cylinder and chemical storage.

D3 Researching the Research Process - Understanding What Drives Effective Collaboration, Creativity and Innovation

Dr. Becky Hayward, Associate, BuroHappold Engineering

- Effectiveness of research environments is a complex issue and often assumed to be too difficult to assess, predict or optimise. Each year universities and commercial organisations spend billions on research - including people, equipment, capital projects etc. Can a data-driven approach facilitate decisions on where to invest and ultimately improve predictability and success of the research outcomes?
- BuroHappold has developed a holistic assessment of the effectiveness and efficiency of research environments, incorporating factors such as quality of spaces and environment, organisational structure and culture, communication patterns, types and diversity of people employed, and operational processes.
- The session will summarise current understanding of how these factors can influence the effectiveness of research. It will also present a strategic tool containing benchmark data which can help universities and other research and innovation organisations understand where they stand currently, and which parameters can be leveraged to optimise outcomes, as an input to strategic, design and operational decisions.

D4 Technical Roles in Research Settings

Burcu Bronner-Anar, Advanced Research Assistant, Wellcome Sanger Institute, and Dr. Clare Stevenson, Senior Scientist, John Innes Centre

- Technical roles in independent research institutes often differ from those in universities, in particular by being combined with active involvement in scientific research.
- This session will provide case studies from John Innes Centre and Wellcome Sanger Institute showing the different roles and how they can evolve and develop.
- The session will also provide opportunities for delegates to share their own experiences and challenges in a supportive environment.

D5 No Tour

QUADRAM INSTITUTE

This opened in early 2019 and houses over 300 researchers plus clinicians and support staff and conducts translational research and care around four themes - Food Innovation and Health; Gut Microbes and Health; Microbes in the Food Chain; and Population Health. Quadram Bioscience uses the top two floors, an NHS Clinical Research Facility is on the upper ground floor, and the lower ground floor welcomes 40,000 NHS outpatients annually to one of Europe's largest endoscopy units. Features include:

- A linear shape and striking terracotta, louvred, façade and a naturally-lit and -ventilated, multi-use, atrium space.
- Open, flexible research laboratories with extensive glazing to showcase the science within and provide excellent visual connectivity between laboratories, offices and floor levels.
- A unique, high resolution, AVoIP connection allowing two-way audio and video interactions between the endoscopy unit and doctors, medical students and researchers elsewhere.
- Optimised performance, safety and sustainability through integrated design of ventilation systems; fixed and mobile benching layouts; positioning of services and equipment; fume cupboards and responsive manifolded air handling controls; and gas cylinder and chemical storage.



ABOUT THE CONFERENCE PARTNERS

S-LAB is a not-for-profit initiative that works with university, research institutes and other sectors and stakeholders to support good practice in laboratory design, operation and management. It particularly focuses on improvement in operational efficiency and effectiveness, and good laboratory design guidelines. It does so through experience sharing events, the S-Lab Awards scheme and projects and publications. See www.effectivelab.org.uk.



THE UNITED KINGDOM SCIENCE PARK ASSOCIATION supports the work of its Members to plan, develop and sustain vital environments for around 4,000 innovative businesses. This event is the first of a series of specialised events to allow in-depth discussions on a specific topic. It is free for UKSPA members and complements UKSPA's triannual two-day meetings, the next of which will take place in November 2019. See www.ukspa.org.uk.

E1 The Translational Journey - Continuing Discussion and Potential for an UKSPA Special Interest Group

Interactive discussion

- Continued conversations on topics arising during the day, and exploration of whether an UKSPA special interest group would be useful and, if so, how it might operate.

E2 Collaborative and Flexible Working in Science Environments - What Lies Ahead?

An informal discussion facilitated by Dr. Patricia Hart, Directorate Manager, Quadram Institute Bioscience, with inputs from external colleagues

- Quadram Institute staff are in a new building and have an opportunity to develop new ways of collaborating and working with each other as they 'bed in' and take advantage of new technologies and opportunities.
- This session is an informal exploration of what those technologies and opportunities are, and how they can help to create highly collaborative and productive environments. Patricia will discuss Quadram Institute's experience and is interested in comparing best practice and new ideas with other science organisations and suppliers.
- Discussion is likely to cover some or all of digital infrastructure and collaborative technologies; furniture (size, shape and layout); and positioning and storage of commonly used accessories.

E3 No Session

E4 Making Laboratories More Sustainable - Practical Steps for Technical Managers and Users

Matthew Bennett, Sustainable Laboratories Manager, University of East Anglia

- Developing a campus-wide Sustainable Labs Programme at the University of East Anglia: opportunities, challenges and mechanisms to achieve improvements.
- Key achievements including creating staff and student engagement, and innovation partnerships as a mechanism for sustainable product development (e.g. the Smart Condensing examples which won the UEA Impact and Innovation SME collaboration of the Year Award 2019).
- Key sustainability issues for research laboratories and what can be done about them. Experience to date on Norwich Research Park and possible next steps.

E5 Tours

Bob Champion Research and Education Building Tour

Note also Quadram Institute General Tour at 16.45

Whilst the main focus of the Conference is the research, innovation and incubation that is undertaken on Norwich Research Park (which UEA is a partner of) we will also take advantage of being in Norwich to showcase and provide tours of two UEA buildings:

- The £19m Bob Champion Building hosts medical research and teaching (including a simulated hospital environment) opened in 2015. It is managed by UEA in partnership with the adjacent Norfolk and Norwich University Hospital and features generous floor to ceiling heights, natural lighting and exciting use of colour, and natural ventilation in the teaching wing. Research laboratories study prostate cancer, antibiotic resistance, musculo-skeletal disease and gastrointestinal diseases and hospital clinicians work within the building to foster collaboration with research teams. It is the subject of 2 tours.
- The £30m New Science Building opens on the main UEA campus in September 2019. It includes three floors of flexible laboratories for Biology, Chemistry, Computing, Engineering, Environmental Sciences, Pharmacy and Physics teaching. The space is designed to promote interactive learning and multi-disciplinary collaboration to inspire tomorrow's scientists and engineers. It is the subject of session A4 briefing and tour.



Bob Champion Building



STEM Teaching Building

CONTINUING PROFESSIONAL DEVELOPMENT

UKSPA is an accredited provider of CPD certification and can certify hours spent at the Conference for use in portfolios.



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NBBJ | www.nbbj.com

NBBJ is a different kind of design practice, one that helps our clients drive innovation by creating highly productive, sustainable spaces that enable people to live, learn, work and play as they were meant to.

The world's leading organisations look to our experts to help them design environments that disrupt the status quo and effect real, meaningful change at all levels. Our clients include institutional leaders such as the Universities of Cambridge, Oxford, Manchester and Stanford, the Pirbright Institute, The Wellcome Trust and The Quadram Institute. We partner with like-minded companies including GlaxoSmithKline, Google, Amazon, Samsung and Microsoft.

Founded in 1943, NBBJ has locations in London, Beijing, Boston, Columbus, Los Angeles, New York, Pune, San Francisco, Seattle and Shanghai. Our global network of teams includes architects, lab planners, nurses, anthropologists, master planners and interior designers who generate ideas that have a profound and lasting impact.

NBBJ's London Studio specialises in science, research, higher education, healthcare, workplace and interior design. We excel at generating distinctive, contemporary and sustainable buildings including those with complex technical briefs.

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Norwich Research Park | www.norwichresearchpark.com

Norwich Research Park is home to over 3,000 researchers and clinicians as well as 115 companies. The Park fosters translational research, innovation, entrepreneurship and accelerated commercialisation in biotech (agricultural, industrial and medical); food, health and microbiome; and genomics and bioinformatics. It is led by the Anglia Innovation Partnership LLP, whose partners are Earlham Institute (genomics and bioinformatics), John Innes Centre (plant science and microbiology), Quadram Institute (food science, gut biology and health), Norwich and Norfolk University Hospitals NHS Trust, The Sainsbury Laboratory (plant disease) and The University of East Anglia. The hub Centrum Building provides laboratory, office and meeting space for growing companies.

GOLD SPONSORS



AECOM | www.aecom.com

AECOM's specialist science and pharma teams work with clients such as Quadram Institute across the life-cycle of their buildings and estates. Our services range from business case support and pre-construction advice, masterplanning, workplace advisory and multi-disciplinary consulting on the successful delivery of new and refurbished laboratory projects through to improving the environmental and scientific performance of existing facilities. Our projects span the public and private sectors and include university teaching and research laboratories; incubators; pharmaceutical, charitable and government research facilities; and commercial science parks. By drawing on our extensive experience within the UK and globally, we bring best practice and add value to every project, large or small.



Jisc | www.jisc.ac.uk

Jisc is the UK higher, further education and skills sectors' not-for-profit organisation for digital services and solutions and is dedicated entirely to the sectors' individual and collective needs. We champion the importance and potential of digital technologies and do three main things:

- Operate shared digital infrastructure and services.
- Negotiate sector-wide deals with IT vendors and publishers and provide trusted advice and practical assistance to the sector.
- Work with funders, universities, equipment vendors and others to enhance the national research equipment portal and help the sector evidence the usage and sharing of research kit.



Ramboll | www.ramboll.co.uk

Ramboll is a global engineering and consultancy company with 15,000 employees worldwide and 1,300 in the UK. Designing hundreds of buildings every year, our passion for design and creativity has led us to work with an array of world leading clients to realise their ambitions and to create many landmark schemes. Our unwavering commitment to design is married with a deep appreciation of a building's function, buildability and adaptability, and our science building specialists have a deep understanding of the needs of research, teaching and clinical facilities. A network of 300 offices allows us to combine a local presence with global knowledge giving clients access to experts in their field along with local understanding.

EXHIBITORS

All material in this section and the preceding one has been supplied by exhibitors and sponsors and S-Lab/UKSPA has not amended it, other than light editing for consistency.

ASECOS

www.asecos.com

asecos is the leading German manufacturer of highly-insulated hazardous material storage cabinets. Celebrating 25 years in 2019, asecos has been actively involved in international associations and working groups to develop innovative and sustainable products to meet the challenges of storing hazardous materials in 21st century laboratories and industrial facilities.

- asecos cabinets are built to the most stringent European (EN) and American (FM) standards.
- They can be integrated into casework or used as free-standing storage solutions. asecos also offers many products for the safe handling of chemicals as well as a variety of extraction systems.
- Attend the session on engineering and ventilation features of Quadram Institute to hear how our equipment enhances safety and sustainability.

BUROHAPPOLD ENGINEERING (PLATINUM SPONSORS)

www.burohappold.com

Whether designing new facilities with cost-effective sustainability-led construction or refurbishment to provide state of the art research space, BuroHappold understands that there's a lot at stake. Come and talk to us to find out more, including a first look at how data and analytics are driving the engineering and design of world-leading research facilities.

- We know that it is critical to attract and retain the best possible research talent which is why research facilities designed/engineered by us will also inspire and connect the people who work within them.
- We firmly believe that your buildings should enhance your competitiveness and in order to do so, you need advisors who continually evolve their thinking.
- Attend sessions involving our experts on the engineering features of Quadram Institute and the latest research into what influences collaboration, creativity and innovation.

CLUSTERMARKET

www.clustermarket.com

Clustermarket provides an online marketplace for scientific equipment and services. It has also developed Bookkit, an equipment booking software for research staff and students, which is being used by more than 350 facilities in 35 universities. This allows:

- Organised equipment and service bookings with grant codes and customised booking rules.
- Flexible pricing depending on time, equipment, user and funding source.
- Usability reports including information for (monthly) recharging.
- User management with booking rules, access rights and equipment training log.

CBRE GLOBAL WORKPLACE SOLUTIONS (GWS)

www.cbre.co.uk

Uniquely tailored, technical-led, facilities services, which help turn the workplace into a competitive advantage.

- GWS is redefining 'workplace' because we believe every place of work can become a competitive advantage for our clients.
- Through our experience and expertise in the Life Sciences industry, we are able to serve and add value to our customers in R&D laboratories, manufacturing plants, office environments and collaborative sciences facilities.
- Come and see CBRE at our stand to learn about our work at Quadram Institute, and for insights into how we can help you to drive value, efficiency and innovation in your workplace.

EXHIBITORS

HAIER BIOMEDICAL

www.haierbiomedical.co.uk

Haier Biomedical is one of the world's leading suppliers of life science equipment, and part of the \$38 billion Haier Group. Established in 1998, it designs, manufactures and sells laboratory equipment for the global market to support clinical and scientific research, and supply of medicines and treatments.

- Our product portfolio includes energy-efficient ULT freezers; biomedical freezers; pharmacy refrigeration; laboratory refrigeration including sparkfree models; LN2 storage vessels and biobanks; clean air – safety cabinets and laminar flow; and wireless monitoring for compliance.
- In the UK we are committed to developing strong relationships with our customers, supporting and listening to them to identify and meet future requirements, such as energy-efficient cold storage.
- We have offices and warehouse facilities in Southern England and can supply from local stock.

INSTITUTE OF SCIENCE AND TECHNOLOGY

www.istonline.org.uk

The Institute of Science and Technology (IST) is a professional body for specialist, technical staff and technical managers working across a broad range of sectors and disciplines. We support technical staff in science, technology, engineering, digital, arts and media environments.

- Our aim is to make sure that our members and the wider technical community get the recognition and careers they deserve.
- Are you in a technical role and interested in professional recognition and career development? – visit us or attend our session as we can help!

NATIONAL TECHNICIAN DEVELOPMENT CENTRE

www.ntdc.ac.uk

The National Technician Development Centre (NTDC) for Higher Education is based at the University of Sheffield and is tackling the shortage of technical skills in universities and colleges by providing:

- Organisations and their technical communities with access to information, expertise and a range of research and tools (including the nationally recognised TDM Toolkit).
- These tools are specifically designed to support the delivery of high-quality technical services across all areas, including Creative Industries, Science, Engineering and Medicine, and are regularly updated - attend our session to learn of the latest iterations.

NBBJ (PLATINUM SPONSORS)

www.nbbj.com

Designed by leading architects NBBJ, the new Quadram Institute brings scientists from different disciplines together with practitioners to revolutionise the way we research and apply findings. Working with the Quadram Institute partners and design team we are proud to have developed a design which we believe will aid in the development of new food technologies and novel treatments, and will also cement the Institute's standing as a national leader in biomedical research.

Founded in 1943, NBBJ is an industry leader in designing science, education, healthcare and workplace facilities. Clients include the Universities of Cambridge, Oxford and Manchester, Abcam, GSK, and, of course, the Quadram Institute.

NORWICH RESEARCH PARK

www.norwichresearchpark.com

The Park fosters translational research, innovation, entrepreneurship and accelerated commercialisation in biotech; food, health and microbiome; bioinformatics and genomics (see p.15).

- Attend David Parfrey's Keynote A1, and visit our stand, for more information.

EXHIBITORS

PHC EUROPE

www.phchd.com/eu/biomedical

PHC Europe B.V. are specialists in the sales and support of temperature controlled biomedical and laboratory products for sample preservation and storage, medical and pharmacy storage, incubation, cell and tissue culture and in-lab sterilisation. Our latest generation of products are designed to provide high performance, energy efficiency and sample security:

- Energy efficient ULT Freezers with green HC refrigerants and Dual Cooling ULT Freezers for enhanced sample protection.
- Cell Culture Incubators with rapid hydrogen peroxide decontamination or high temperature sterilisation.
- Cryo-storage systems and high-specification refrigeration.

RAMBOLL (GOLD SPONSORS)

www.ramboll.co.uk

The company employs more than 15,000 experts in 300 offices in 35 countries and has especially strong representation in the Nordics, UK, North America, Continental Europe, Middle East and Asia-Pacific. They work across the following markets: Buildings, Transport, Planning & Urban Design, Water, Environment & Health, Energy and Management Consulting.

- Ramboll combines local experience with a global knowledge base constantly striving to achieve inspiring and exacting solutions that make a genuine difference to our clients, the end-users, and society at large.
- Hear about our central role on the Quadram Institute project, including structural engineering.

SCIENCE COUNCIL

www.sciencecouncil.org

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. Through our Licensed Bodies we admit to our registers scientists and science technicians who meet our competence and conduct requirements and commit to Continuing Professional Development. Those scientists who reach the required standards are recognised by the following designations CSci, CSciTeach, RSci and RSciTech.

- Visit our stand to hear how our qualifications can help your career.

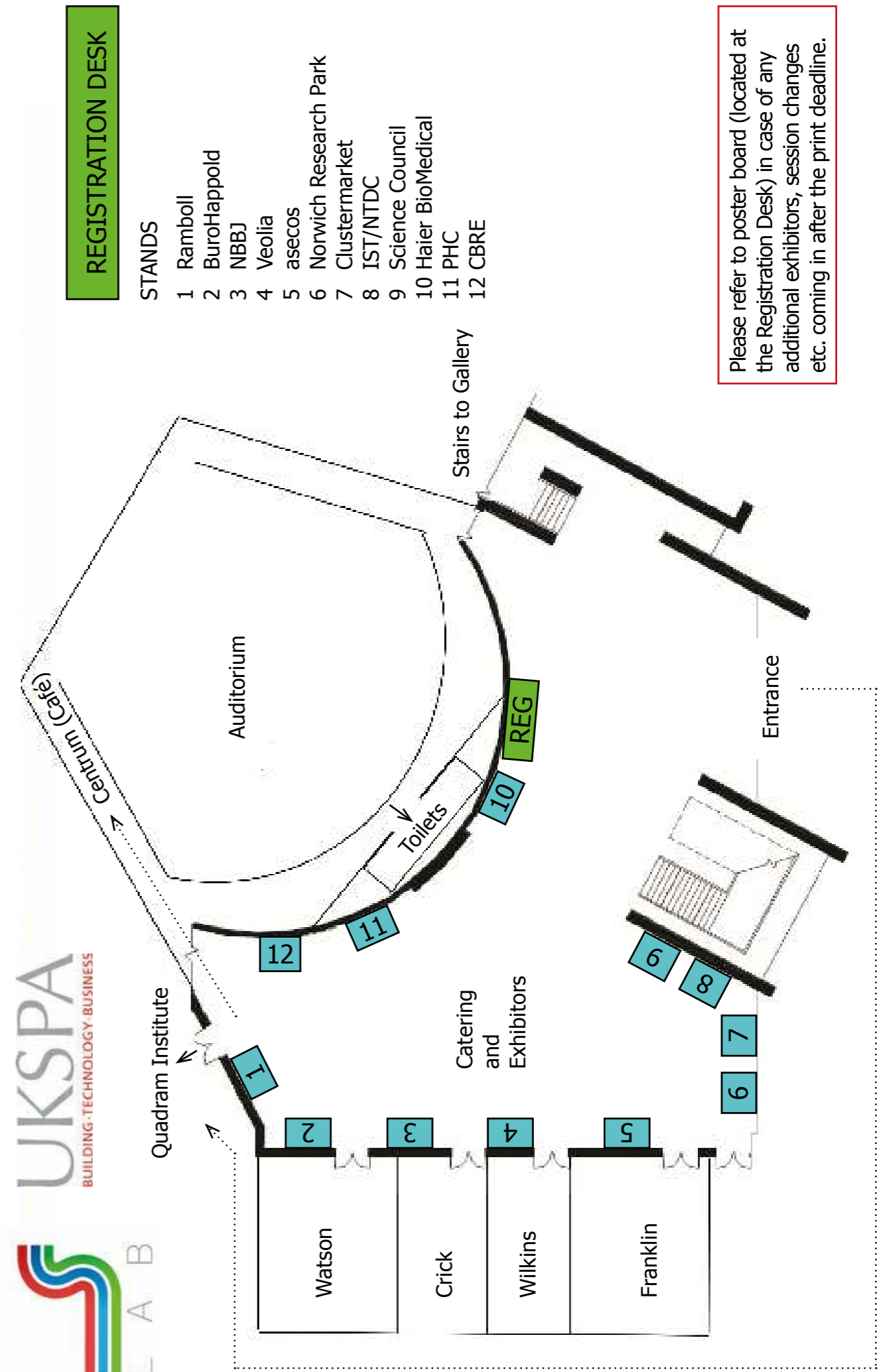
VEOLIA WATER TECHNOLOGIES

www.veoliawatertechnologies.co.uk

Veolia Water Technologies specialises in delivering water purification systems and service support for a wide range of scientific applications. Our reliable and easy to install systems can meet all your Type I to Type III laboratory water requirements. We offer stand-alone equipment as well as complex central water systems and are one of the largest stockists of lab fixtures in the UK.

- We are the market leader for laboratory water purification systems, offering a range of products and services for research, analytics and healthcare environments.
- We can provide help and expertise at all stages from conceptualising and finalising the design through to the build and system installation.
- We work closely with leading laboratory instrument companies to customise water purification systems for specific applications.

JOHN INNES CONFERENCE CENTRE LAYOUT AND EXHIBITION



AERIAL VIEW OF NORWICH RESEARCH PARK AND UNIVERSITY OF EAST ANGLIA



JOHN INNES CENTRE

CENTRUM

JOHN INNES
CONFERENCE CENTRE

QUADRAM
INSTITUTE

UNIVERSITY OF EAST ANGLIA CAMPUS
(NEW SCIENCE BUILDING)

BOB CHAMPION
BUILDING