



ISO/TC 276 & ISO/TC 276 SC1 BIOTECHNOLOGY PLENARY 2024

UNIVERSITY OF STRATHCLYDE,
TECHNOLOGY AND INNOVATION CENTRE,
GLASGOW, SCOTLAND
17-22 JUNE 2024

Organised by:

International Organization for
Standardization

Hosted by:

The British Standards Institution and
National Measurement Laboratory



FOREWORD

We are delighted to welcome you to the ISO/TC 276 & ISO/TC 276 SC1 Biotechnology Plenary 2024 taking place in Glasgow, Scotland on 17-22 June, 2024.

ISO (International Organization for Standardization) is an independent, non-governmental international organization with a membership of 171 national standards bodies. Through its members, it brings together experts to share knowledge and develop voluntary, consensus-based, market relevant International Standards that support innovation and provide solutions to global challenges.

We are proud to host this conference in the UK for the first time and to welcome ISO delegates to historical Glasgow. We are confident that your presence will add value to the discussions and outcomes of this year's conference.

The conference will offer an opportunity to ISO Members to share knowledge with a view to continuing development of International Standards that support innovation and provide solutions to global biotechnology process challenges. As a delegate, you will have the opportunity to participate in productive discussions, exchange ideas and network with around 100 international delegates.

We are committed to ensuring that you make the most of your time with us. Members of the ISO/TC 276 will be welcomed on Monday 17 June at a Reception hosted at the University of Strathclyde, Technology and Innovation Centre. On Wednesday 19 June Members will be hosted by the Rt Hon The Lord Provost of Glasgow and Glasgow City Council at a Civic Reception and dinner at the City Chambers. The remainder of the time is left free for you to sample the delights of the city. We encourage you to arrive early or extend your visit to explore the rest of what Scotland has to offer.

Should you have any questions or require additional assistance, please do not hesitate to contact us. Thank you for joining us. We look forward to meeting you.

Julian Braybrook and Scott Steedman CBE FREng



Julian Braybrook
Director
National Measurement Laboratory



Scott Steedman CBE FREng
Director - General, Standards
The British Standards Institution



WELCOME TO GLASGOW

Glasgow is in west central [Scotland](#) and is Scotland's largest city.

Glasgow is a vibrant and cosmopolitan place with a wealth of cultural heritage to explore. The city's historical legacy is held in many different places; museums and art galleries, libraries and archives, historic buildings, parks and gardens, rivers and canals from its archaeology to its architecture.

Glasgow is a very walkable city, especially the city centre, so you can easily explore it on foot whilst taking in the beautiful buildings and architecture around you – don't forget to 'look up' when you're in the city.

City sightseeing bus

The City Sightseeing Glasgow open-top bus tour is one of the most convenient ways to visit Glasgow's top tourist attractions and iconic sights. The complete tour lasts approximately 1 hour and 25 minutes. Full accessibility for wheelchair users is available on all tours, with one dedicated wheelchair space available on the lower deck of each bus.

Tickets are available from the [City Sightseeing Glasgow website](#), the driver or pavement staff and are valid for 1 or 2 days.

Things to do and see in Glasgow

- [City centre mural trail](#)- One of the most famous Glasgow attractions is the street art. Glasgow was named the 4th best city in the UK for street art.
- [Kelvingrove Art Gallery and Museum](#)- Kelvingrove Art Gallery and Museum is one of Scotland's most popular free attractions and features 22 themed, state-of-the-art galleries displaying an astonishing 8000 objects.
- [Glasgow Botanic Gardens](#)- Wander 50 acres of leafy parkland in the heart of the west end at Glasgow Botanic Gardens.
- [Gallery of Modern Art \(GoMA\)](#)- Found in the heart of Glasgow in Royal Exchange Square, GoMA provides a thought-provoking programme with displays of local and international artworks.
- [Comedy, music and theatre](#)- Every day throughout the city, there's a Glasgow event to enjoy. Sample fresh live music in the city's bars, laugh yourself silly at comedy and be dazzled by dance, theatre and art festivals.

Places to eat in Glasgow

Glasgow has a creative and award winning food scene- explore some of the city's best restaurants [here](#).

- [Bibbit Bowsters](#)- International modern style with plenty of traditional Scottish dishes. There is often entertainment in the evenings
- [The Buttery](#)- With the feel of a 1930 Scottish film set, the Buttery boast the best Scotland has to offer.
- [Merchants square](#)- Good food and great events in the heart of Glasgow's Merchant City.
- [The Pot Still](#)- Specialising in whisky, the Pot Still prides themselves on finding every customer their perfect dram.

TRANSPORT IN GLASGOW

Getting to Glasgow

Glasgow is easily accessible from the rest of the UK and overseas by train, sea, road and air.

Glasgow has 3 international airports nearby, with connections across the UK and the world:

- Glasgow Airport is the closest airport to the city centre. The express bus service outside the terminal only takes around 15 minutes to Glasgow. A single fare is approx. £10.00. Visit glasgowairport.com for more information.
- Glasgow Prestwick Airport is 32 miles (51km) from Glasgow. It is very accessible with train and bus services to the city centre. Find out more at glasgowprestwick.com.
- Edinburgh Airport is 39 miles (63km) from Glasgow. There is a direct bus service from the airport to Glasgow's Buchanan Bus Station which takes around 1 hour. Head to edinburghairport.com for more information.

Public transport

SUBWAY - You can either buy a single ticket or, if you're here for a few days, you might want to get a Subway Smartcard, which offers the best fares and you can top up as you go. [Visit the Strathclyde Partnership for Transport \(SPT\) website](#) for more information.

TRAIN - Glasgow Central Station links Glasgow by rail to the south, with Glasgow Queen Street Station (0.4 miles from the conference venue) operating routes mainly to Edinburgh and the north. [Visit the ScotRail website](#) for information on all routes and timetables. Need to travel between Central Station and Queen Street Station? Check out ScotRail's handy walking routes or bus link service at scotrail.co.uk.

A Roundabout ticket gives one-day unlimited travel on ScotRail and Subway services to over 110 stations in the Greater Glasgow area. More information on the Roundabout ticket can be found at spt.co.uk.

BUS - There are a variety of tickets to choose from, including day tickets allowing unlimited travel in your selected area all day, or a weekly ticket if you're staying here longer. For the cheapest prices, [download the First Bus App](#) where you can buy and store tickets on your phone, plan your journey in advance and track the arrival of your next bus.

Buchanan Bus Station is 0.6 miles away from the conference venue.

THE VENUE

The Technology & Innovation Centre (TIC), part of the University of Strathclyde, opens doors to new areas of research, innovation and technology development, all aimed towards creating new possibilities, new levels of dynamic collaborations and productive outcomes. The Technology & Innovation Centre helps accelerate the way in which researchers in academia and industry collaborate and innovate together, within a new specifically designed state-of-the-art building in the Glasgow City Innovation District, found in the heart of Glasgow. Teams include researchers, engineers and project managers from academia and industry, who work side-by-side on projects including advanced manufacturing & materials, health & wellbeing, innovation & entrepreneurship, measurement science & enabling technologies and ocean, air & space.

Developed with industry, for industry, the Technology & Innovation Centre has already attracted Scottish and Southern Energy, the Weir Group, Scottish Power and several other major cross-sectorial industrial companies. By working together both will benefit from participation by large corporations and a large group of innovative SMEs.

Find out more

<https://www.strath.ac.uk/research/technologyandinnovationcentre/whatistic/>

Address

University of Strathclyde,
Technology & Innovation
Centre, 99 George St,
Glasgow, G1 1RD

(Number 26 on the map (right))



USEFUL INFORMATION

Accessibility at the Technology and Innovation Centre

- There is level access to the building (Level 2 is the ground floor).
- Lift access is available to all floors.
- All Auditoria have wheelchair spaces for those unable to transfer into a seat.
- All Auditoria and Conference Rooms are fitted with induction loops.
- There are accessible, gender neutral toilets on all floors, which are clearly signposted.

Useful links

- [University of Strathclyde, Technology and Innovation Centre](#)
- [Visit Glasgow](#)

QR Codes

City map



Delegate offers



THE PROGRAMME

All events will be held at the Technology and Innovation Centre, apart from the Conference Dinner, which is being held in the Glasgow City Chambers.

ISO/TC 276 Biotechnology Working Groups and Sub-Committees cover the following topics:

- Chair's advisory group;
- WG 2 - biobanks and bioresources;
- SC1 WG 1-3 - analytical methods;
- WG 4 - bioprocessing;
- WG 5 - data processing;
- WG 6 - nucleic acid- and protein-based devices.

	Mon	Tues	Wed	Thurs	Fri	Sat
	17/06/2024	18/06/2024	19/06/2024	20/06/2024	21/06/2024	22/06/2024
Meeting	Registration					
Chair's Advisory Group (Level 3 Conf Rm 1)	08.00-10.00				16.30-18.00	
WG2 (Level 9 Exec Rm B)	10.30-17.00	09.00-17.00	09.00-17.00			
Joint SC1 WG2/TC276 WG2 (Level 3 Conf Rms 6&7)				ISO/CD TR 4752 08.00-09.00		
SC1 (WG1-3) (Level 3 Conf Rms 6&7)			WG2 09.00-17.00	WG1 09.00-17.00	WG3 09.00-16.00	
WG4 (Level 3 Conf Rm 5)	10.30-17.00	09.00-17.00				
WG5 (Level 3 Conf Rm 8)				09.00-17.00	09.00-16.00	
WG6 (Level 3 Conf Rm 1)				09.00-17.00		
Plenary: ISO TC 276 (am) ISO TC 276 SC1 (pm) (Level 9 Exec Rms A&B)						09.00-13.30 14.00-17.00
Reception events	Welcome Reception Univ. Strathclyde, TIC 18:00-20:00		Reception and Dinner Glasgow City Chambers 18:45-21:30			



SOCIAL EVENTS

Monday 17 June, Welcome Reception at the TIC, 18:00-20:00 pm

Julian Braybrook, Director of the NML at LGC and Scott Steedman CBE FREng, Director General, Standards, BSI, have the pleasure of officially welcoming you to the ISO/TC 276 & ISO/TC 276 SC1 Biotechnology Conference 2024 with a reception at the Technology and Innovation Centre (TIC), the University of Strathclyde on Monday 17 June from 18:00 to 20:00.

Wednesday 19 June, Civic Reception and Dinner at the City Chambers, 18:45-21:30

The Rt Hon The Lord Provost of Glasgow and Glasgow City Council have the pleasure of welcoming all representatives of the ISO/TC 276 and ISO/TC 276 SC1 meeting to the city of Glasgow and will be offering a Civic Reception on Wednesday 19 June at the City Chambers. Reception will be followed by dinner.

- 18:45 – Guests arrive at City Chambers Banqueting Hall for Civic Drinks Reception
- 19:15 – Call to Dinner
- 19:30 – Civic Welcome by Lord Provost or Bailie of the City
- 19:35 – Dr Julian Braybrook, Director, National Measurement Laboratory
- 19:40 – Dinner Served
- 21:00 – End of dinner
- 21:30 – Carriages

BACKGROUND TO ISO AND TC 276

The conference of national standardizing organizations which established ISO took place in London from 14-26 October, 1946. ISO was born from the union of two organisations - the ISA (International Federation of the National Standardizing Associations), established in New York in 1926 and administered from Switzerland, and the UNSCC (United Nations Standards Coordinating Committee), established in 1944 and administered from the London offices of an international standardization organization which was already venerable – the International Electrotechnical Commission (IEC).

Despite its transatlantic birthplace, the ISA's activities were mainly limited to continental Europe and it was therefore predominantly a "metric" organisation. The standardizing bodies of the main "inch" countries, Great Britain and the US, never participated in its work, though Britain joined just before the Second World War.

The UNSCC was established by the US, Great Britain and Canada in 1944 to bring the benefits of standardization to bear both on the war effort and the work of reconstruction.

It was suggested that the UNSCC should approach the ISA with a view to forming an organization, provisionally called the "International Standards Coordinating Association". It was resolved to convene a conference of all member countries belonging to the UNSCC and ISA in London in October 1946. 25 countries were represented by 65 delegates. The conference was abandoned on its first morning, but was immediately reconvened as a conference of the UNSCC and various other national standards associations. The UNSCC agreed to cease functioning as soon as ISO was operational. By the time the conference finished, meetings of the provisional ISO General Assembly and the provisional ISO Council had already been held.

The development of International Standards and other ISO deliverables is carried out by ISO Technical Committees and their Sub-committees, or by project committees.

ISO TC 276 addresses biotechnology and the first meeting, hosted by DIN, was held in Berlin, Germany in 2013. The activities of its 37 participating member countries and 14 observing member countries of the Technical Committee have resulted in the publication of 33 standards to date, with a further 21 standards in development.



**International Organization for
Standardization**

We're ISO, the International Organization for
Standardization. We develop and publish...





BRITISH STANDARDS INSTITUTION

The British Standards Institution (BSI) was founded in 1901. The Kitemark was registered two years later, and a Royal Charter was first granted in 1929. BSI is a purpose led organization and exists to have a positive impact on society.

As the UK National Standards Body, BSI aids innovation, supports economic growth and improves quality, safety and well-being through standardization. BSI is appointed by the government to develop British Standards and represent the UK's interests in standards development at a European and global level.

BSI is a non-profit distributing organization and reinvests its profits to foster progress and partnerships. BSI offers global services and solutions across assurance, regulatory, knowledge and consulting services.

To find out more visit- <https://www.bsigroup.com/>



NATIONAL MEASUREMENT LABORATORY

The National Measurement Laboratory (NML), hosted at LGC, is the UK's Designated Institute for chemical and biological measurement and supports the work of the Government Chemist.

The NML predominantly delivers measurement research, enabling the NML to offer reference methods and materials, calibration facilities and services as well as specialised advice and training.

The NML plays a leading role in standardising measurements across the world helping to foster innovation, promoting productivity and economic growth.

The NML provides a unique function to the UK, working in partnership with its stakeholders to provide the expertise and knowledge to improve chemical and biological measurements across life sciences, green industries, and food sectors, resulting in reliable, trusted and proven answers to the most complex scientific issues.

The NML's measurement research supports health, food, environmental sustainability and security and underpins some of the biggest challenges of our time.

To find out more visit- <https://www.lgcgroup.com/uk-national-measurement-laboratory/>

CONTACT

ISO TC 276 Secretariat - For queries related to the scientific programme

NML Communications- For general queries

