

# INTERNATIONAL FLOW BATTERY FORUM 2026



## PRELIMINARY PROGRAMME

16 - 18 JUNE 2026 / BUDAPEST, HUNGARY  
..and online

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PLATINUM



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POSTER SESSION



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# IFBF 2026 - PRELIMINARY PROGRAMME



Over three days, the 2026 edition of the **International Flow Battery Forum** will highlight recent global developments in flow battery technology, including **large-scale installations, AI and data centre applications, transport uses, and advances in research and manufacturing**. The event will bring together manufacturers, customers, investors, and researchers to address supply chain readiness, financing, and large-scale deployment within a high-level technical and commercial networking environment.

With an **increasing number of flow battery installations** in several markets, this conference addresses the key issues to validate the commercial viability and the investment profile for flow battery projects.

Bringing together leading international researchers, the event will showcase the **latest scientific and technological achievements and discuss their implications for flow battery manufacturers**. As research, experimentation, and validation increasingly intersect with commercial deployment, the programme will highlight how technical and commercial challenges are being addressed to enable broader market adoption.

Dedicated sessions will focus on **supply chain development, manufacturing advancements, and the steps required to achieve large-scale production**. Customers, investors, and financial advisors have been invited to contribute to discussions on project financing, market readiness, and new investment opportunities.

IFBF is recognised for its **unique combination of high-level technical content and commercial networking**, creating a dynamic platform for collaboration across the flow battery community.

## MAIN TOPICS:

- Recent flow battery developments across Europe, North America, and Asia
- Successes and challenges for the flow battery industry, from technical validation to industrial deployment
- AI, data centres: scale-up and applications
- Microgrids
- Deep dive into the Hungarian and eastern Europe Energy perspectives
- Latest research and manufacturing advancements
- Market and supply chain issues



# THE VENUE

**Address:** Budapest Apaczai Csere J.U, 12-14, 1052 Hungary  
**Telephone:** +36 1 327 6333  
**Website:** <https://www.budapest.intercontinental.com>

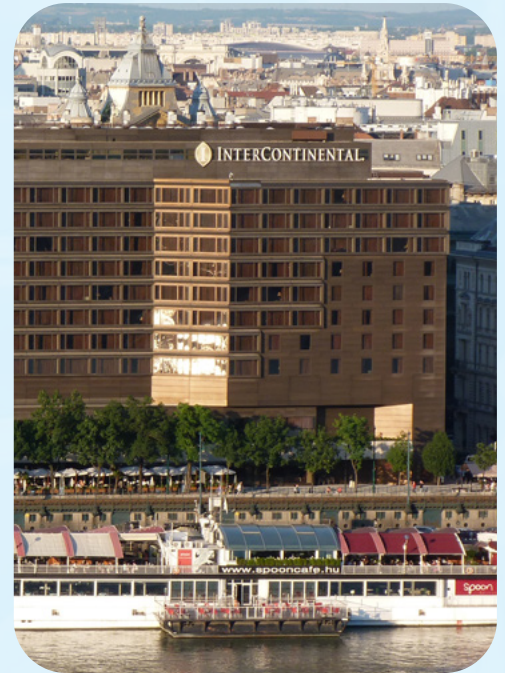
## INTERCONTINENTAL HOTEL

The InterContinental Budapest is located in the very centre of Budapest, directly on the banks of the Danube and within short walking distance of the city's main landmarks, including the Chain Bridge and the historic castle district. Its position combines a central, easily accessible setting with open, uninterrupted views over the river and the city skyline.

## PREFERENTIAL RATE FOR ACCOMMODATION

A preferential rate for accommodation is available to IFBF delegates! The rooms are classic double rooms with a normal view (EUR 215 per night) or river view (EUR 265 per night). The preferential rate is available for rooms reserved from Sunday 14 to Friday 19 June. Availability is limited.

Book your room here: <https://book.passkey.com/event/51200817/owner/10616176/home>



**DAY ZERO**  
**MONDAY 15 JUNE**  
**14:00 - 16:00**

**INTERCONTINENTAL HOTEL**  
**Afternoon**

## **PRE-CONFERENCE WORKSHOP - MEMBRANES IN FLOW BATTERIES**

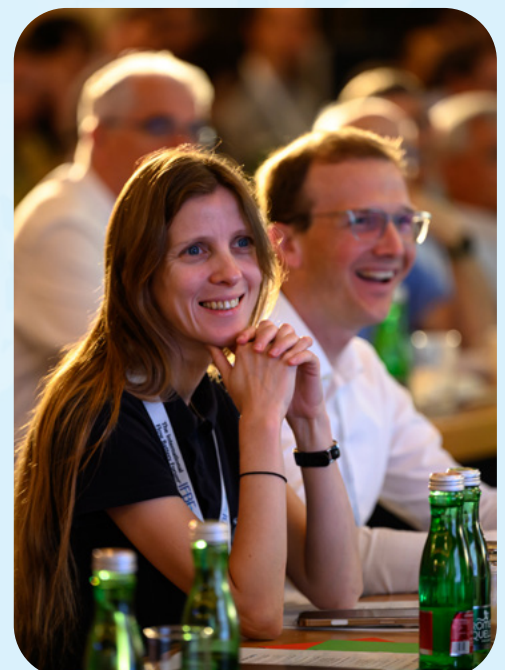
A pre-conference workshop entirely dedicated to the role of membranes in flow batteries!

### MAIN TOPICS:

- Background to the Role of Membranes in Flow Batteries
- Current Challenges in the Use of Membranes
- What Are the Latest Developments in Membranes?
- .. and more

### SPEAKERS:

- Pegah Shadmanheidary, *KU Leuven*
- Patrick Sullivan, *Flux XII, Inc.*
- Tülay İnan, *Sabancı University Nanotechnology Research and Application Center*
- John Miller, *ENTEK International*
- Other speakers TBA



**IFBF 2026**

**DAY ONE**  
TUESDAY 16 JUNE  
09:00 - 17:00

**INTERCONTINENTAL HOTEL**  
Morning and Afternoon

### KEYNOTE ADDRESSES AND DISCUSSIONS COVERING:

- Introduction to Hungary, and eastern Europe energy scenarios
- Comparisons with the other energy scenarios around the world.
- International policies to develop the market for flow batteries
- Flow battery achievements in 2025 / 2026. Successes and challenges for the flow battery industry
- Changes needed in the current regulatory environments to grow and support the flow battery industry

### DOES SIZE MATTER? LARGE FLOW BATTERIES AND MASS DEPLOYMENTS

- GWh Scale VFB Systems for Data Centers and Critical Infrastructure
- Project Development and Delivery of a Utility Grade 20.7 MWh Vanadium Flow Battery

### MARKET AND SUPPLY CHAIN ISSUES

- Vanadium market analysis
- Commercial, technical and strategic issues in assessing viability and bankability of flow battery projects
- From cost curves to confidence curves: what Europe needs to deploy bankable flow batteries
- Flow batteries and beyond, scaling lab to pilot and commercial manufacturing



**GUNDEL RESTAURANT**  
Evening

### CONFERENCE DINNER AT GUNDEL RESTAURANT

19:00 - 23:00



**Enjoy an elegant networking evening in the historic Gundel Restaurant.**

Hungary's most famous and only Hungaricum restaurant is must-see, the most famous and bucket-list place in Budapest and Hungarian gastronomy!

The almost 130-year-old Gundel Palace, with its rococo atmosphere and gold stuccoed Queen Elisabeth Ballroom, is one of the unique jewels of Budapest.

It is a venue for elegant balls, parties, receptions and weddings, where the historical past and 21st century technology are both present.

The perfect location for the IFBF conference dinner!

## 08:30 – WELCOMING COFFEE

*Foyer and Exhibition Area*

## 09:00 – WELCOME

*Ballroom*

**Patrick Clerens**, *Director IFBF*. **Anthony Price**, *Programme Coordinator IFBF*. **Kees van de Kerk**, *President Flow Batteries Europe*

## 09:15 – 2026 – TIME FOR FLOW BATTERIES!

*Leading members of the flow battery industry give us their perspectives on the latest developments*

*Ballroom*

- **Jeehyang Huh**, *H2, Inc.*
- **Jean-Louis Cols**, *Invinity Energy Systems*
- **Min Tang**, *Rongke Power*
- **Eugene Beh**, *Quino Energy*
- **Christoph Stelzer**, *CellCube Energy Storage*
- Moderated by **Patrick Clerens**, *Director IFBF*

## 10:30 – COFFEE BREAK

*Foyer and Exhibition Area*

## 11:00 – HELPING EUROPEAN MANUFACTURERS PROGRESS BEYOND EUROPE

*Ballroom*

- **Mr. Peteris Ustubs**, *DG International Partnerships, European Commission*
- **Other speakers TBA**

## 12:00 – MARKETS TRENDS AND BANKABILITY DYNAMICS

*Ballroom*

- **Terry Perles**, *TTP Squared*: Vanadium Market Analysis
- **Mikhail Nikomarov**, *Boston Consulting Group*: Market Dynamics in the Flow Battery Industry
- **Other speakers TBA**
- Moderated by **Marlene Vesterdal**, *Independent Vanadium Analyst*

## 12:45 – LUNCH BREAK

*Corso Restaurant - Ground Floor*

## 14:00 – DOES SIZE MATTER? LARGE FLOW BATTERIES AND MASS DEPLOYMENTS

*Ballroom*

- **Jeremy Peters**, *Vecco Group*: Electrolyte at Scale: Supplying AI Datacentres and Competing Beyond Chinese Dominance
- **Antonio Zingales**, *SAET Spa*: Large Flow Battery applications for Long Duration and AI Data Centres. The new segment between lithium and Hydrogen
- **Ahmad Hammad**, *Aramco*: Demonstration and Deployment of Fe-V RFB for Applications in Middle-East
- **Georg Lieser**, *J. Schmalz GmbH*: Advancing Redox Flow Stack Technology: Setting New Standards for Sustainable Energy Storage
- **Other speakers TBA**
- Moderated by **Aurelien Ballagny**, *Head of Policy, Flow Batteries Europe*

## 15:45 – COFFEE BREAK

*Foyer and Exhibition Area*

## 16:15 – FLOW BATTERIES IN EASTERN EUROPE – THE HUNGARIAN CASE

*Ballroom*

- **Peter Kaderjak**, *Hungarian Battery Association*
- **György Czipó**, *IDEONA*

## 19:00 – CONFERENCE DINNER

*Gundel Restaurant, Budapest, Gundel Károly út 4, 1146 Hungary*



# DAY TWO

## WEDNESDAY 17 JUNE

09:00 - 17:00

INTERCONTINENTAL HOTEL  
Morning and Afternoon

### UPDATES ON TECHNICAL AND COMMERCIAL DEVELOPMENT

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- The latest developments in vanadium flow battery technology, including high performance flow battery stacks and updates on existing R&D programmes
- Reducing environmental impacts via liquid-to-liquid recycling of vanadium flow batteries.
- Microemulsion electrolytes and real-time materials aging.
- Other inorganic systems presentations, including zinc-manganese flow batteries, hybrid all-iron redox flow batteries, hybrid soluble lead flow and lithium-ion battery systems, and Fe-V RFB demonstrations .

### ORGANIC SYSTEMS AND OTHER TOPICS

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- Presentations on molecularly engineered phenazine anolyte, on phosphonate modified tempo catholytes, and scaling flow batteries from lab to commercial manufacturing .
- Additional talks on tubular flow battery stacks, hybrid systems with hydrogen, and poster sessions including new aqueous flow batteries and in situ characterization.

### POSTER SPEED PITCH “JUST A MINUTE!”

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As a prelude to the IFBF Poster session, invited poster presenters will talk for “just a minute” about their work. Listen to their pitches as you hear about the latest research and new ideas in the industry before the poster and exhibition networking session.

### IFBF POSTER SESSION AND NETWORKING RECEPTION

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17:00 - 19:00

Our popular IFBF poster session is back! We will be featuring 50 posters on the latest R&D in the world of flow batteries. Pick up your refreshments and talk to the poster presenters, visit our exhibition stands and discuss the latest developments with experts, colleagues and friends!

Sponsored by:



## 08:30 – WELCOMING COFFEE

Foyer and Exhibition Area

## 09:00 – VANADIUM SYSTEMS

Ballroom

- **Yuta Ochi, Sumitomo Electric Industries:** Development of a new Vanadium Flow Battery
- **Mike Perry, Storion Energy:** High-Performance Vanadium Flow Battery (VFB) Stacks
- **Yannick Bachirou Seiler, Fraunhofer ICT:** Current status and outlook of the 2 MW / 20 MWh vanadium redox-flow-battery at Fraunhofer ICT
- **Michael Schäffer, Fraunhofer ICT:** Reducing the environmental impact of vanadium flow batteries with a liquid-to-liquid recycling process
- **Fraser Hughson, Allegro Energy:** Microemulsion electrolytes
- **Alasdair Robertson, Invinity Energy Systems:** Inside a VFB: Investigating Real-Time Materials Ageing
- **Yin Zhang, Wontai Power:** From materials to systems: Independent innovation throughout the entire chain of high-power and low-cost flow batteries

## 10:30 – COFFEE BREAK

Foyer and Exhibition Area

Sponsored by Redox Flow



## 11:00 – OTHER INORGANIC SYSTEMS

Ballroom

- **Luca Magagnin, Politecnico di Milano:** Scaling Assessment of a Zinc-Manganese Flow Battery
- **Alena Neudert, University of Bayreuth:** Investigation of Hybrid all-Iron Redox Flow Batteries
- **Phalguni Anurag, University of Southampton:** System-Level Modelling and Experimental Evaluation of a novel Converter-less Hybrid Soluble Lead Flow and Lithium-Ion Battery System
- **Andrii Bondar, R.Flo:** Why iron flow batteries fail, and what actually makes them work
- **Ahmad Alem, Technical University of Leoben:** Impact of Activation Methods on Fouling Resistance and Durability of Carbon Felt Electrodes in Organic Flow Batteries
- **Kathryn Toghill, University of Lancaster:** Stabilisation of Iron-Ligand Complexes for Use in Redox Flow Batteries
- **Other speakers TBA**

## 13:00 – LUNCH BREAK

Corso Restaurant - Ground Floor

## 14:00 – ORGANIC SYSTEMS

Ballroom

- **Anu Jacob, CIC Energigune:** A Molecularly Engineered Phenazine Anolyte for Long-Term Stability in Neutral Aqueous Redox Flow Batteries
- **Pranav Bhuvanesh, John. P Stevens High School:** Phosphonate modified TEMPO catholytes
- **John Alper, CMBlu energy AG:** Flow batteries and beyond, scaling lab to pilot and commercial manufacturing
- **Kathryn Toghill, Lancaster University:** A Hybrid Redox Flow Battery for Energy Storage and On-Demand Hydrogen Generation

## 15:30 – COFFEE BREAK

Foyer and Exhibition Area

## 16:00 – NEW AQUEOUS FLOW BATTERY

Ballroom

- **Ryoichi Kanega, NIAIST Japan:** New aqueous Flow Battery
- **Andrii Zakharchuk, DILICO:** In situ characterization of temperature, current and impedance

## 16:30 – POSTER SPEED PITCH “JUST A MINUTE”!

Ballroom

As a prelude to the IFBF Poster session, invited poster presenters will talk for “just a minute” about their work and convince you to visit their poster!

## 17:00 – POSTER SESSION AND COCKTAIL RECEPTION

Terrace

# DAY THREE

THURSDAY 18 JUNE

09:00 - 14:00

## INTERCONTINENTAL HOTEL Morning

### MANUFACTURING AND BUSINESS OPPORTUNITIES

- Bridging the gap between academic programmes, national and international R&D support and industry
- Other topics include reliability in scaling, cost and lifetime lessons, as well as unusual flow battery applications including scalable flow battery installations for urban transport terminals.
- Leading international experts discussing current and future business opportunities
- Route to mass production and deployment.

### CONFERENCE CLOSING SUMMARY AND PRESENTATION OF AWARDS

- Summary of the proceedings and announcement of 2027 edition
- Presentation of awards for the poster session



## SITE VISIT Afternoon

### LOCAL SITE VISIT - VESZPRÉM

14:00 - 18:00

Around 100 delegates will have the chance to attend the site visit in the site of Veszprém on Thursday 18 June 2026 afternoon.

Veszprém is a 9 VS3, 2MWh system connected to a solar array. The technology is provided by Invinity Energy Systems and installed by Ideona.

Photo courtesy of Invinity Energy System.



## 08:30 – WELCOMING COFFEE

*Foyer and Exhibition Area*

## 09:00 – MANUFACTURING, PERFORMANCE, AND RELIABILITY

*Ballroom*

- **Jiří Charvát, Pinflow:** Electrode Durability and Performance in Electrochemical
- **Adam Weber, Lawrence Berkeley National Laboratory:** Insights into Crossover in Membrane Separators for Flow Batteries
- **Crispin Hawes, AMG Titanium:** Building a Scalable VFB Future: High-Performance Electrolyte Driving Cost Reduction, Optimised Supply Chains and Large-Scale Recyclability
- **Min Kang, JNTG:** Improving Performance and Durability of VRFB Using N,O Co-Doped Graphite Felt Electrodes
- **Fabian Brandes, Hamburg University of Applied Sciences:** Towards cost efficient production of tubular flow battery stacks
- **Thorsten Seipp, Volterion:** Operational performance of a scalable 30 kW Flow-Battery Stack
- **Other speakers TBA**

## 10:50 – COFFEE BREAK

*Foyer and Exhibition Area*

## 11:30 – BUSINESS OPPORTUNITIES AND INTERNATIONAL COOPERATIONS

*Ballroom*

- **Wei Wang, Pacific Northwest National Laboratory**
- **Scott Watkins, Kyung-In Synthetic Corporation (KISCO):** Bridging the Gap Between Academia and Industry: Scalable Hydrocarbon Ionomers for Next-Generation Flow Batteries
- **Other speakers TBA**

## 12:45 – CLOSING REMARKS AND POSTER SESSION AWARDS

*Ballroom*

## 13:00 – LUNCH BREAK

*Corso Restaurant - Ground Floor*

## 14:00 – SITE VISIT

*Veszprém, Piramis u. 9, 8200 Hungary*



# FLOORPLAN

**SPO  
NSO  
RS**

**Platinum**

cellcube



**Gold**



**Silver**



GFE



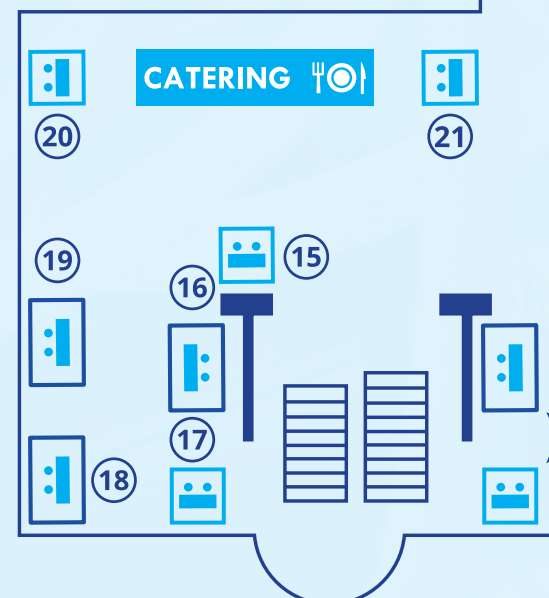
**Poster  
Session**



## EXHIBITORS:

- 1) AMG TITANIUM
- 2) PINFLOW
- 3) QUINO ENERGY
- 4) WONTAI POWER
- 5) FUMATECH
- 6) REDOX FLOW
- 7) STORION ENERGY
- 8) NEWARE
- 9) VANEVO
- 10) OMNI COMPOSITE TANK
- 11) WHITECELL EISENHUTH
- 12) WEVO
- 13) VOLTERION
- 14) INOHUB ENERGY
- 15) SCHMALZ
- 16) FLUX-GERÄTE
- 17) ZH ENERGY
- 18) BIOLOGIC
- 19) JNTG
- 20) FLOW BATTERIES EUROPE

**ENTRANCE**



**EXHIBITION AREA**

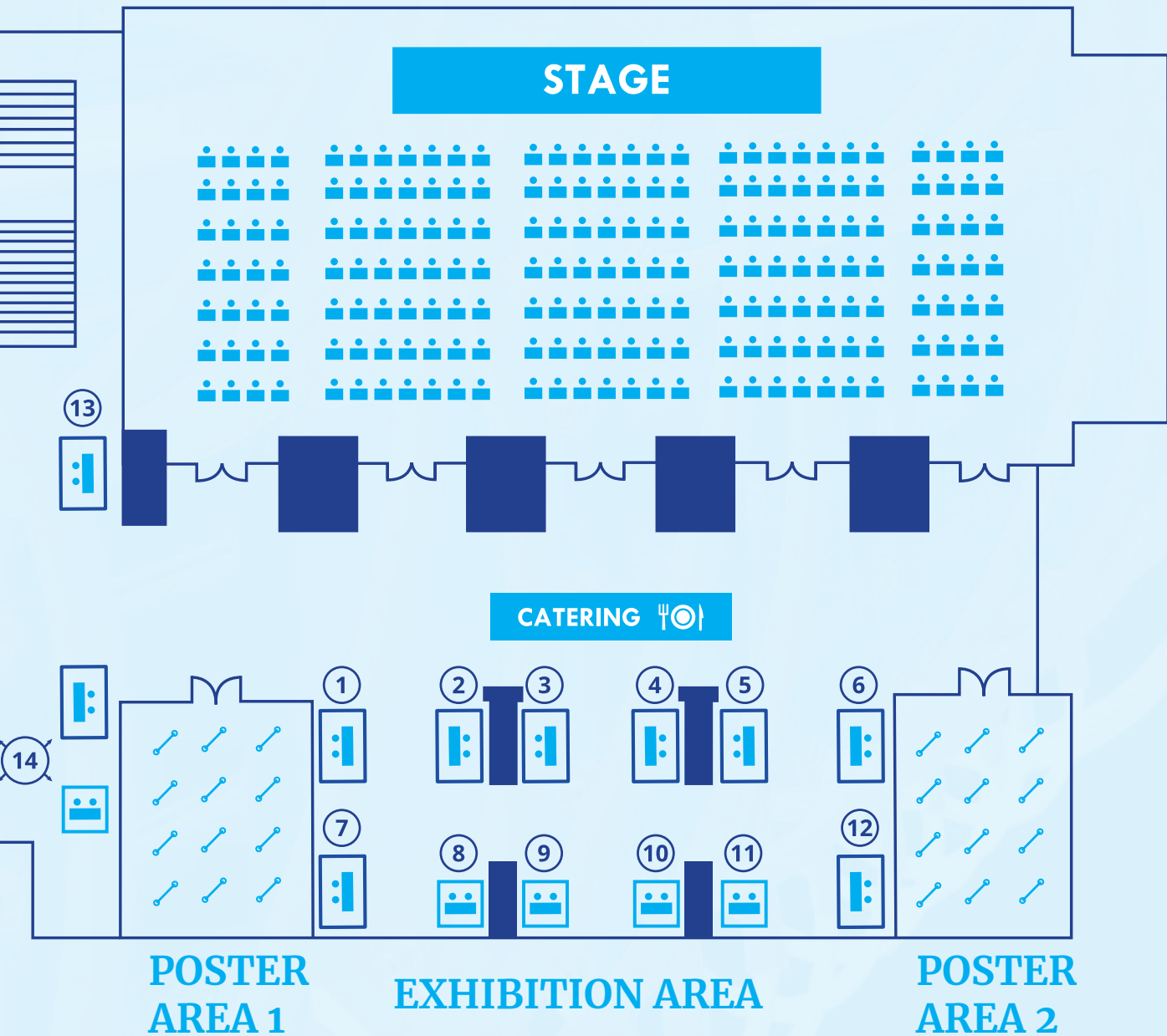
**STANDS SIZE**



# EXHIBITORS



## CONFERENCE THEATRE



6 sq-metres



4 sq-metres

Please consider that this version of the floorplan is not final and may change.

IFBF