



Joint CIGRE Study Committees B3 & A3

Colloquium 2023

Birmingham 9th – 12th May 2023

Agenda

Floor Plan

Restaurant List

Colloquium Day 1 - Tuesday 9th May								
	Kingston Theatre	Lodge Room 1	Lodge Room 2	Lodge Room 3	Telford Room	Crompton Room	Boulton Room	Faraday room
08:00	Arrival and Refreshments: Waterside Room							
08:30	SC A3 Tutorial 1: "Simulation tools for electrical equipment"	WG B3.64	WG B3/A3/60	WG B3.61	SAG B3	SAG A3	WG B3.54	WG B3.65
10:30	Mid Morning Refreshments: Waterside Room							
11:00	SC A3 Tutorial 2: "Tools for lifecycle management of T&D switchgear based on data from condition monitoring systems"	WG B3.64	WG B3/A3/60	WG B3.61	SAG B3	SAG A3	WG B3.54	WG B3.65
13:00	Buffet Lunch: Waterside Room							
14:00	SC B3 Tutorial: "Impact on Engineering and Lifetime Management of Outdoor GIS"	WG B3.64	WG B3/A3/60	WG B3.61	SAG B3	SAG A3	WG B3.54	WG B3.65
16:00	Afternoon Refreshments: Waterside Room							
16:30	SC B3 Tutorial: "Asset health indices for equipment in existing substations"	WG B3.64	WG B3/A3/60	WG B3.61	SAG B3	SAG A3	WG B3.54	WG B3.65
18:30	Networking Reception: Waterside Room							
20:00	All Delegates Depart							

Colloquium Day 2 - Wednesday 10th May								
	Kingston Theatre	Lodge Room 1	Lodge Room 2	Lodge Room 3	Telford Room	Crompton Room	Boulton Room	Faraday Room
08:00	Arrival and Refreshments: Waterside Room							
08:30	SC B3 Tutorial: "Service Continuity Guide for HV GIS above 52 kV"	WG B3.64		WG B3.61	WG B3/A3/60		WG B3.54	WG A3.46
10:30	Mid Morning Refreshments: Waterside Room							
11:00	Substation Training Course "Introduction to GIS"	WG B3.64		WG B3.61	WG B3/A3/60		WG B3.54	WG A3.46
13:00	Buffet Lunch: Waterside Room							
14:00	Substation Training Course "Introduction to Asset Management"	WG B3.64		WG B3.61	WG A3.42	WGA3.48	WG B3.54	WG A3.46
16:00	Afternoon Refreshments: Waterside Room							
16:30		WG B3.64		WG B3.61	WG A3.42	WGA3.48	WG B3.54	WG A3.46
18:00	Depart - No formal arrangements for this evening							

Colloquium Day 3 - Thursday 11th May

		Kingston Theatre	Faraday Room	Boulton Room
07:45		Arrival Refreshments : Waterside Room		
08:15		Welcome		
08:30	Session 1 Fluoronitrile gas development	Presentation of SF6-free Dead-Tank Circuit Breaker rated 145kV, 63kA Authors - Darles, Ludovic; Hermosillo, Victor; Gregoire, Cyril		WG A3.46 SC A3 UAB
08:45		Update on the development of 420 kV GIS Substations switchgear using environment friendly C4-FN / O2 / CO2 gas mixture Authors - Gregoire, Cyril; Rognard, Quentin; Leguizamon, Diana; Souchal, Samuel; Bernard, Félix; Barnett, Matthew		
09:00		Performance of High Voltage Circuit-Breakers using C4FN gas mixture on Shunt reactor applications Authors - Gregoire, Cyril; Catala, Marius; Darles, Ludovic		
09:15		245kV Single Break capability for Air Insulated Switchgear SF6-free Circuit-Breaker Authors - Revaud, Blandine; Bobeau, Antonin; Berard, David; Ozil, Joël		
09:30		Type testing of 420-kilovolt circuit-breaker based on C4-FN technology Authors - Teppati, Valeria		
09:45		Dual Gas concept and design compatibility between SF6 & SF6-free GIS products Authors - Barbe, Tommie; Ficheux, Arnaud; Portal, Bertrand; Souchal, Samuel; Chesneau, Walter; Bernard, Felix		
10:00		Long-term performance and decomposition of Fluoronitrile-containing gas mixtures in gas-insulated systems Authors - Juhre, Karsten; Glaue, Andreas; Haupt, Hansgeorg; Kessler, Florian		
10:15			Mid-Morning Refreshments: Waterside Room	
10:45	Keynote	Alice Delahunty, President National Grid Transmission UK		WG A3.46 WG A3.39
11:00	Session 2 Natural origin gas development	High-Voltage Switchgear Technology Applying CO2/O2 Natural-Origin Gas Mixture as an Alternative Insulating and Interrupting Medium to SF6 Authors - Uchii, Toshiyuki		
11:15		Development of SF6-Free 72/84 kV GIS Using Synthetic Air as an Alternative to SF6 Authors - Uchii, Toshiyuki		
11:30		F-gas-free Natural Origin Gases for MV GIS, to manage a low carbon future Authors - Duerr, Thomas; Scott, Christopher; Venna, Karthik Reddy; Kalter, Achim; Wolfrum, Florian		
11:45		Development of 420 kV SF6-free Instrument Transformer Portfolio with Synthetic Air Insulation for AIS-Applications Authors - Prucker, Udo; Negri, Fabrizio		
12:00		Zero Emission F-gas-free 420 kV GIS for a Net Zero Carbon Future Authors - Wilke, Stefan		
12:15		Q&A		
12:30		Buffet Lunch: Waterside Room		

Colloquium Day 3 - Thursday 11th May

	Kingston Theatre	Faraday Room	Boulton Room
12:30		Buffet Lunch: Waterside Room	
13:30	Session 3 Lifecycle comparatives utilising alternative gases	Strategy to select SF6-alternatives and to introduce new technology equipment in the transmission grid of TransnetBW Authors - Badicu, Laurentiu-Viorel; Christian, Jochen; Wenger, Philipp; Kuznetsova, Galina	WG A3.46
13:45		Guidelines and tools for end users to estimate, quantify and challenge climate change and ecological impacts of medium- and high-voltage switchgear Authors - Perret, Maxime; Berteloot, Thomas; Sasaki Støa-Aanensen, Nina; Hovestad, Peter; Kristoffersen, Martin ; Inversin, Michaël; Rønning, Anne;	
14:00		Steps to a CO2 neutral Substation Authors - Lindner, Christian	
14:15		Lifetime evaluation of elastomeric seals for high-voltage switchgear using SF6 and its application to synthetic air insulated equipment Authors - Sato, Koma; Hatanaka, Yasumichi; Oyanagi, Yosuke; Nakamura, Yasunori; Nakauchi, Shinichiro	
14:30		Maximizing the sustainability of day-to-day services for power technology Authors - Jul, Mercedes; Bertinotti, Aurelien; Matas, Guillermo; Martinez, Helena	
13:45		Path towards Net-Zero using Life Cycle Assessment Authors - Chomel, Matheo; Berteloot, Thomas; Perez, Elliott; Dumoulin, Clemence; Vantil, Samara; Kieffel, Yannick	
15:00		Q&A	
15:15			
15:45	Plenary Session What's the future of SF6 and it's alternatives for use in Transmission & Distribution equipment	Introduction: what's happened since Session Paris+D22:D30	WG A3.46
		Update since TB.802	
		European regulation update	
		CARB and the RoW regulations	
		SF6 in the UK	
		Status from Manufacturers	
		Panel and delegate discussions	
18:00		All Delegates Depart	
19:30		Gala Reception and Dinner at the Hyatt Regency Birmingham	

Colloquium Day 4 - Friday 12th May		
	Kingston Theatre	
08:00		Arrival and Refreshments: Waterside Room
08:30		Recap
08:45	Session 4 Asset Management challenges	CIGRE fourth reliability survey on switching equipment Authors - Ito, Hiroki; Richter, Frank; le Roux, Robert; Paper, Wayne
09:00		Suitability Investigation of a Machine Learning Approach to Evaluate SF6 Alternatives Authors - Savruckis, Davids; Chen, Lujia; Yin, Hujun
09:15		Enhancement of Electrical Insulation Performance using FGM Techniques in Air Insulated HV GIS Authors - Okamoto, Kenji; Masui, Hidetaka; Yanase, Hironori; Hayakawa, Naoki; Kato, Katsumi; Okubo, Hitoshi; Kozako, Masahiro; Osawa, Naoki; Inoue, Tomohiro; Adachi, Kazuo
09:30		Experience with biodegradable liquids in instrument transformers with an emphasis on dielectric testing Authors - Koprivec, Krešimir; Žiger, Igor; Ivanović, Darko; Župan, Tomislav
09:45		The Influence of Embodied Carbon on Management of High Voltage Substations in a UK Net Zero Environment Authors - Singh, Amitoj
10:00		Substation design with compactly developed equipment to reduce carbon footprint Authors - Taketa, Koichi; Sadahiro, Koki; Sasaki, Hoshito; Nakamura, Yasunori; Maeno, Satoru; Sasamori, Kenji; Tokai, Masashi; Takeda, Manabu
10:15		Q&A
10:30		
11:00	Session 5 New technology concepts	Pilot projects and ongoing activities in Japan for phasing out SF6 gas Authors - Nakamura, Keisuke; Tsukao, Shigeyuki; Uchii, Toshiyuki; Takao, Shuhei
11:15		SF6 gas management in substations Authors - Nagahama, Takahiro; Sugimoto, Hiroya
11:30		Analysis of SF6 Leakages Events with Respect to Recommendations for End-of-Life Management of the Substation Equipment Authors - Nazarčík, Tomáš; Černožorský, Jan
11:45		Transformers and the Circular Economy Authors - Ryder, Simon; Heinz, Michael
12:00		Transformer Fire Safety in the Absence of SF6 Authors - Ryder, Simon
12:15		Q&A
12:30		Buffet Lunch: Waterside Room

Colloquium Day 4 - Friday 12th May			
	Kingston Theatre		
12:30		Buffet Lunch: Waterside Room	
13:30	Session 6 Evolution in energy network design	Study on Zero Emission Hydrogen-powered Backup Generator for Substations Authors - Ranjan, Prem; Hughes, Timothy; Iddrissu, Ibrahim; Coleman, Sean; Elmer, Theo	
13:45		FACTS to enable greater renewables penetration in Ireland – developments and Roadmaps for alternative technologies Authors - le Roux, James Robert; Mans, Eben	
14:00		Network & equipment development of FACTS to enable greater renewables penetration in Ireland – developments and Roadmaps for alternative technologies Authors - le Roux, James Robert; Morgenstern, Ralph; Mans, Ebe	
14:15		System for Real Time Monitoring and Optimising of Power Losses in High Voltage Substations - a Romanian Experience Authors - Moldoveanu, Constantin; Ionita, Irene; Brezoianu, Virgil; Zaharescu, Sorin; Hategan, Ioan; Marcolt, Mihai	
14:30		Optimisation of Operational Efficiency in Remote Operation Authors - Patel, Priyanka; Gupta, Tarnnum; Srimannarayana, G; Kumar, Manoj; Kumar, Sunil	
14:45		Expedite Grid Sustainability using IIOT: Kickoff Models & Roadmap Author - Mahmoud Zakaria	
15:00		Q&A	
15:15		Session closing remarks	
15:30			All Delegates Depart

Restaurants

Find below a selection of some of the Restaurants within 15 minutes walking distance from the IET Austin Court.

Miller & Carter Mailbox (Steak house) – Mailbox, 178-180 Wharfside St, Birmingham B1 1RN

Gaucho Birmingham (Argentinian steak restaurant) – Lower Ground Retail, 55 Colmore Row, Birmingham B3 2AA

The Ivy Temple Row (Modern European) – 67-71 Temple Row, Birmingham B2 5LS

The Canal House (International) -12 Bridge Street, Birmingham B1 2J

Cote Birmingham (European restaurant) – The Mailbox, 120-122 Wharfside St, Birmingham B1 1RX

Bistro Pierre Waterside House (French Restaurant) – 46 Gas St, Birmingham B1 2JT

Zizzi (Italian restaurant) – Eleven Brindley Place, Birmingham B1 2JB

Gourmet Burger Kitchen (Hamburger Restaurant) – Unit 4, The Waters Edge, Brindley Pl, Birmingham B1 2HL

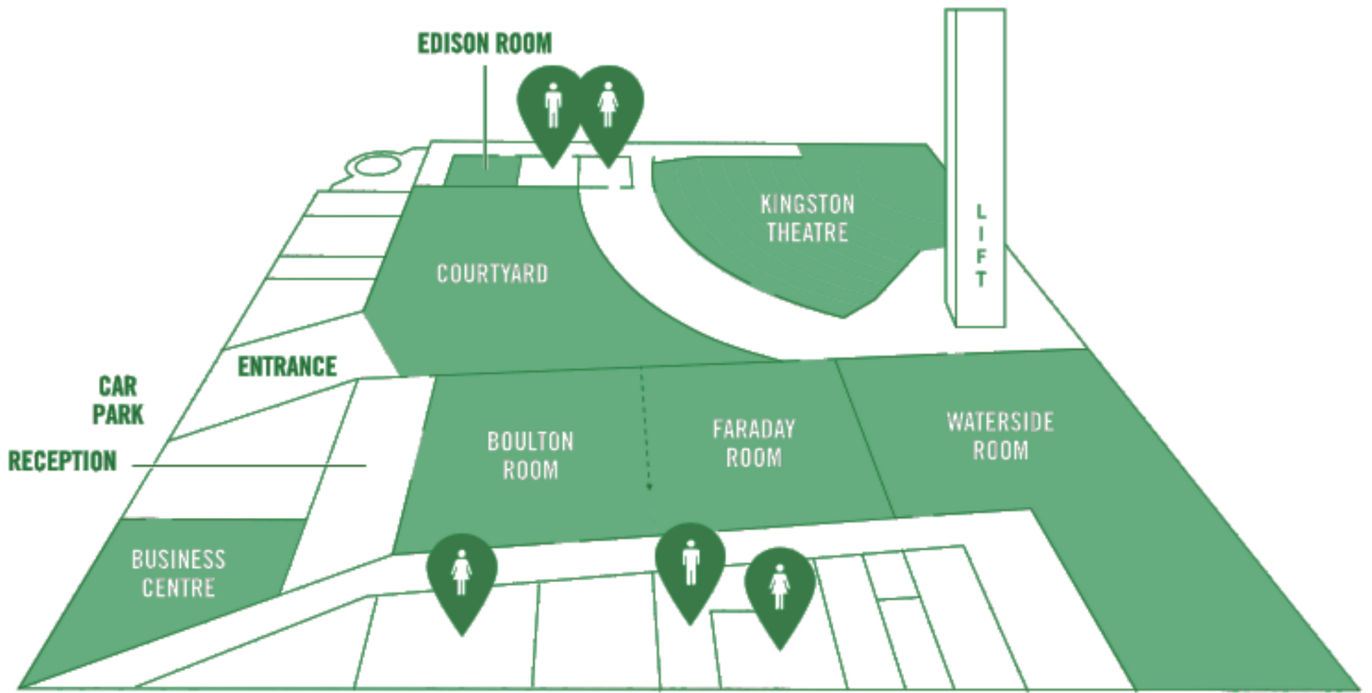
Dishoom Birmingham (Indian Restaurant) – One Chamberlain Sq, Birmingham B3 3AX

Siamais (Thai restaurant) – 6, 7 Brindley Pl, Oozells St., Birmingham B1 2HS

Qavali (Indo-Persian Restaurant) 60 Broad St, Brindley Pl, Birmingham B1 2HJ

Lulu wild (Chinese restaurant) – Unit 7 & 8, The Waters Edge, Brindley Pl, Birmingham B1 2HP

Ground Floor



Second Floor

