

















International Retrofit Conference 2025

Programme & Abstract Booklet

3-4 July 2025 University of Salford



Day 1 Programme (Thursday 3 July 2025)

Time	Event			
08:30-09:20	New Adelphi Atrium			
	Registration and Networking			
09:20-09:30	New Adelphi Thea	atre		
	Opening: William S	Opening: William Swan, Director at Energy House Labs		
09:30-10:00	New Adelphi Thea	atre		
	-	: The Wicked Problem of Retrofit		
		ector at Energy House Labs		
10:00-10:30	New Adelphi Thea			
	-	: Beyond Incrementalism: The Rad	ical Retrofit Needed for True	
	Building Decarbonisation			
	Jan Rosenow, Senior Associate of the Cambridge Institute for Sustainability Leadership			
10:30-11:00	New Adelphi Atriu			
11:00-11:30	New Adelphi Thea		and dilamana of vatvatit	
	Keynote Speaker 3: The multiple benefits, challenges and dilemmas of retrofit.			
11:30-13:15	Gavin Killip, Professor of Buildings & Energy Policy at Nottingham Trent University Parallel Sessions (15 mins presentation per speaker + 15 mins Q&A for all speakers)			
New Adelphi	`	Room 1.16 (Performance	Room 1.17 (Studio Theatre)	
-	and evaluation 1	Rehearsal Room)	Scaling up and occupant	
1 orrormanoo (and ovaldation i	Retrofit design and delivery 1	coating up and cocapant	
Chair: Yingchı	un Ji, University of	Chair: David Glew, Leeds	Chair: Angela Connelly,	
Salford	,	Beckett University	Manchester Metropolitan	
			University	
Evaluating the	hygrothermal	Thermal Imaging in Building	Enhancing Labour Productivity	
performance	and associated	Diagnostics: A Systematic	in Retrofitted Works Towards	
benefits and r	isks of	Review of Applications,	Construction and	
replacement i	nfill panels for	Challenges, and Opportunities	Environmental Sustainability in	
historic timbe		Ibrahim Abaji, University of	Ghana	
buildings in th		Salford	Emmanuel Akoi-Gyebi Adjei,	
Chris Whitma	n, Cardiff		Accra Technical University	
University				
	nsure that a net-	Transforming retrofit: how	A Proposal for a Retrofit Master	
zero retrofit has been achieved?		understanding housing as a	Degree in University Education:	
Lubo Jankovic, University of		cultural asset can develop more	Bridging the Skills Gap	
Salford		effective relational and	Chamara Sandaruwan, University of Salford	
		regenerative retrofit designs. Lucy McFadzean, University of	Oniversity of Satiora	
		Exeter		
Are we underestimating the		Timber MMC Retrofit Case	A Five-Dimensional Framework	
embodied impact of home		Study Analysis of Embodied	for Assessing Landlord	
improvements?		Carbon Impact	Knowledge in Housing Retrofit	
·		r	Projects	
110,000				



Basaman, Fieldson, University	liar Cadia Edinburah Naniar	Congress Von University of	
Rosemary Fieldson, University of Lincoln	Jiar Sadiq, Edinburgh Napier	Fengwen Yan, University of Manchester	
	University		
Appraisal Of Energy	Qualitative analysis of	Towards a Socio-technical Post	
Management Measures in	stakeholders' perspectives on	Occupancy Evaluation	
Residential Sector in Nigeria	the adoption of Nature Based	Methodology for Private Rental	
Olusola Akinsanya, Federal	Solutions (NBS) in the adaptive	Residential Retrofit Occupant	
Polytechnic Ado Ekiti Nigeria	reuse of urban housing	Satisfaction	
	projects: An interim report	Jill Zhao, UWE Bristol	
	Zahra Sharif Tehrani,		
	University of Plymouth		
Effect of heating system heat	Is Pas 2035 the Silver Bullet for	Automating O&M Manual Data	
flow pathway on energy	Retrofit?	Extraction for Retrofit	
utilisation	Paul Mundy, UWE Bristol	Applications: Assessing GPT-	
Andy Williams, University of		4o's Performance and	
Chester		Challenges	
		Peter Childs, Imperial College	
		London	
A comparison of SAP	Multi-Objective Optimisation of	Enhancing Productivity in	
assumptions vs measured U-	Zero-Operational Carbon	Retrofitting Works: Perspective	
value and airtightness in pre-	Retrofit Strategies for Office	of Labour	
1919 dwellings. A case study	Buildings in Tropical Climates:	Emmanuel Akoi-Gyebi Adjei,	
approach.	Insights from an Indonesian	Accra Technical University	
Richard Fitton, University of	Case Study		
Salford	Nissa Aulia Ardiani, University of		
	Liverpool		
Q&A session for all speakers	Q&A session for all speakers	Q&A session for all speakers	
13:15-14:15 New Adelphi Atr	um		
Lunch			
14:15-14:45 New Adelphi The	atre		
Keynote Speaker	4: Future-Fit Retrofit: Navigating the	Nexus of Complexity, Innovation,	
and Resilience			
Rokia Raslan, Pro	fessor of Built Environment Decarbo	onisation at the UCL Institute for	
Environmental De	esign and Engineering		
14:45-15:15 New Adelphi The	New Adelphi Theatre		
Keynote Speaker	5: Retrofit Re-examined: Reflection:	s on UK's first zero carbon retrofit	
John Christopher	John Christophers, Retrofit Designer of Zero Carbon House		
Lubo Jankovic, Pr	Lubo Jankovic, Professor of Energy & Buildings at Energy House Labs		
	New Adelphi Atrium Coffee Break		
	(15 mins presentation per speaker -	. ,	
New Adelphi Theatre	Room 1.16 (Performance	Room 1.17 (Studio Theatre)	
Performance and evaluation 2	Rehearsal Room)	Performance and evaluation 3 &	
	Retrofit design and delivery 2	policies	
Chair: Chris Whitman, Cardiff	OL : I'II ZI LIMED : . I	Obstate December Fields	
Chair. Chins Willuman, Calum	Chair: Jill Zhao, UWE Bristol	Chair: Rosemary Fieldson,	



Study of compressed earth brick and bio-based test houses	Assessment of Cooling Loads and Energy Cost Implications	Barriers to the effective assessment of economic	
in Sense-City equipment:	for Integrated Insulating	benefits of retrofit projects.	
instrumentation, hygrothermal	Materials in Retrofitting Direct	Sharon Bhorkar, Leeds Beckett	
behavior and energy efficiency	Iron Processing Plant Buildings	University	
Yan Ulanowski, Université	for Improved Sustainability and		
Gustave Eiffel	Energy Efficiency		
	Anthony Adeyanju, The		
	University of the West Indies		
A comparison of low- and high-	Exploring Net-Zero Solutions for	Evidence Landscape for	
pressure airtightness test	High-Density Building Retrofits	Surfactant Based Energy Saving	
methods in existing UK	Sam Ahmadzadeh, University of	Heating and Cooling Water	
dwellings	the West of Scotland	Additives	
Felix Thomas, Leeds Beckett		Andy Williams, University of	
University	Walatin and a large	Chester St. Mathedala and	
Performance assessment of a	Viability study of external	Heritage Retrofit Methodology: A	
'new skin' deep renovation	thermally insulated panelised	Comprehensive Framework for	
concept through in-situ measurements	systems for housing retrofit James Wakefield, Retrofit	Scalable Net-Zero Retrofit Haniyeh	
Twan Rovers, Saxion University	Laboratories Ltd.	Mohammadpourkarbasi,	
of Applied Sciences	Laboratories Ltd.	University of Liverpool	
Comparison of modelling	Transformative justice	Retrofitting As Strategy For	
techniques and HTC	framework for analysing home	Residential Energy Management	
measurements in a UK dwelling	energy retrofits	In Nigeria	
pre- and post- retrofit	Ketki Mehta, University of	Olusola Akinsanya, Federal	
Sarah Price, Leeds Beckett	Salford	Polytechnic Ado Ekiti Nigeria	
University			
Simulating HTC Measurements	Grassroots to Industry: Retrofit	Bringing mitigation and	
for Increased Confidence in	and Restoration in	adaptation together to ensure	
Retrofit Performance	Undergraduate Architectural	healthy and resilient homes for	
Predictions	Studies.	all: what the research says	
Mark Collett, Leeds Beckett	Maria Yioutani-lacovides,	Angela Connelly, Manchester	
University	University of Salford	Metropolitan University	
Impacts of air permeability on	Lean Retrofit: Methods and	Deciding on retrofit: engaging	
heating demand for residential	Application for Best Practice	with home owners in Greater	
housing retrofit in the UK	Paul Coates, University of	Manchester Crooms Sharriff University of	
Yingchun Ji, University of Salford	Salford	Graeme Sherriff, University of Salford	
Q&A session for all speakers	Q&A session for all speakers	Q&A session for all speakers	
17:15-18:15 Tour of Energy House 2.0			
17.10-10.10 Tour or Lifelgy Hou	100 2.0		



Day 2 Programme (Friday 4 July 2025)

Friday 4 July 2025

Time	Event			
08:30-09:20	New Adelphi Atric	ım		
	Registration and N	letworking		
09:20-09:30	New Adelphi Thea	atre		
	Opening: William S	Swan, Director at Energy House Lal	os	
09:30-10:00	New Adelphi Thea	atre		
	Keynote Speaker 1	: Residential heating optimisation	and affordability – are we failing the	
	least well off?			
	Colin Timmins, Director of Homes at National Energy Action			
10:00-10:30	New Adelphi Thea	atre		
	Keynote Speaker 2	: The Retrofit of Traditional and His	toric Building	
		ector from Edwards Hart Consulta	nts (national authorities on heritage	
	retrofit)			
10:30-11:00	New Adelphi Atri			
11:00-11:30	New Adelphi Theatre			
	Keynote Speaker 3: Accelerating Retrofit through Devolution			
	Dan Griffiths, Greater Manchester Combined Authority			
11:30-12:30	Parallel Sessions			
New Adelphi	Theatre	Room 1.16 (Performance	Room 1.17 (Studio Theatre)	
BSI Launch		Rehearsal Room)	Industry papers 1 (15 mins	
(1 hour panel	discussion)	Industry sponsor presentation 1	presentation per speaker + Q&A	
		(30 mins per speaker)	for all speakers)	
	d Fitton, University	Chair: William Swan, University	Chair: Lubo Jankovic, University	
of Salford		of Salford	of Salford	
Retrofit Asses		How do we tackle the current	Home Advantage: supporting	
	ind discussion	funding landscape to enable	households transition to net zero	
-	coming standard	more retrofit in social housing'	Elizabeth Murray-Clarke, Hubbub	
BS 40104 Ass		Regan Costello, Seddon	Sunamp Heat Battery as a Pre-	
dwellings for r			heating Solution for Domestic Hot	
Colin McKerracher, BSI			Water Heating: A Case Study Evaluation	
		Insights from airtightness	Catalina Dobas, Sunamp Ltd Lessons Learned from Retrofit	
		testing 35,000 existing UK	Projects in Canada	
		homes	Mike Battistel and Zahra	
		Luke Smith, Build Test Solutions	Mosharzadeh,	
		Zano omnin, zana rost ostationis	Cascadia Windows & Doors	
			Evaluating the Energy-Saving	
			Potential of Innovative Window	
			Blinds in the UK	



			Christopher Tsang, University of	
			Salford	
			Q&A session for all speakers	
12:30-14:00	New Adelphi Atri	um Lunch & Exhibition	·	
14:00-15:00	Parallel Sessions			
New Adelphi	Theatre	Room 1.16 (Performance	Room 1.17 (Studio Theatre)	
Industry spon	sor presentation 2	Rehearsal Room)	Industry papers 2 (15 mins	
(30 mins per s	peaker)	Industry sponsor presentation 3	presentation per speaker + Q&A	
		(30 mins per speaker)	for all speakers)	
Chair: William	n Swan, University	Chair: Richard Fitton, University	Chair: Christopher Tsang,	
of Salford		of Salford	University of Salford	
My Innovation	Journey	Heating for Smaller Homes	Open Source Property	
Keith Rimmer,	Thermocill	Oliver Baker, Ambion Heating	Archetyping for Domestic Retrofit	
			Knowledge Sharing at Scale	
			Jon Moorhouse, Constructive	
			Thinking Studio Ltd	
			Unlocking Retrofit for Blocks of	
			Flats: how and when is building	
			performance modelling useful for	
			people who live in flats?	
			Lizzy Pettitt, KLH Sustainability	
	o carbon retrofit,	Measuring the thermal	Retrofit of floor insulation and	
from calculati	-	performance of buildings at	scaling with robotic technology	
	, Red co-operative	scale	Peter Childs, Imperial College	
ltd		Richard Jack, Build Test Solutions	London and Q-Bot Ltd Comparative Analysis of Residential	
		Solutions	Building Retrofit Processes in Spain	
			and United Kingdom: Regulatory	
			Frameworks, Implementation	
			Strategies, and Funding Mechanisms	
			Yashna Calleechurn,	
			Constructive Thinking Studio Ltd	
			Q&A session for all speakers	
15:00-15:30	New Adelphi Thea			
	-	: Technology Pathways for Energy-	Efficient Homes: A Decision-	
Making Toolkit				
	·	artner at Daidalos Peutz building pl	hysics engineering (Leuven,	
45.00 40.00	Belgium)			
15:30-16:00	New Adelphi Theatre			
	Keynote Speaker 5: Exploring the Retrofit Experience for Homeowners			
16:00-16:10	Marianne Heaslip, Technical Director, People Powered Retrofit			
10.00-10:10	New Adelphi Theatre Closing: William Swan, Director at Energy House Labs			
16:10-17:00	Tour of Energy House 2.0			
10.10-17.00				