

## PROGRAM SCHEDULE | DAY 2 - MONDAY, AUGUST 25 - ALL ROOMS

0730-0840	Registration (arrival tea and coffee)  Live Stream Room								
i	Live Stream Room Plenary - Plaza Terrace Room	Mezzanine M1	Mezzazine M2	Piaza P1	Plaza P2	Plaza P3	Plaza P4	Plaza P5	\$1
0840-0850	Opening Ceremony: - Acknowledgment of Country								
0850-0900	Welcome & IBPSA address   IBPSAA President - Quentin Jackson								
0900-0940	Keynote address: Science isn't finished until Dr Jen Martin it's communicated								
0940-0950	Sponsor Address: Better Building Darren O'Dea								
0950-1030	Keynote address: Occupant-centric approaches to improve energy performance Zoltan Nagy								
Morning tea					Poster sessions - in fover				
1030-1100 Theme	BIM to BEM	Climate Change Mitigation & Adaptation CCMA	Climate Change Mitigation & Adaptation CCMA	Indoor Environment Quality IEQ	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES	Urban Planning & Smart Cities UPSC	Innovative Design Exploration & Industry Transformation
	Session Chair: Pieter de Wilde	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC
1100-1115	IFC-based semiautomated building energy Sayegh, Hasan model creation and simplification for Building Energy Simulations	Future Overheating Risks in Buildings Petersen, Steffen complying with current Codes	Viability of free-running buildings in the de Wilde, Pieter Nordic region	A workflow for designing VR experiments for Cho, Yunni daylight and view-out studies using real-time stereoscopic videos	Beyond correlation: A causality-driven Mun, Jeeye model for indoor temperature control	Stochastic simulation of uncertain input Geske, Mara parameter in urban building energy modelling	Quantifying the compound impact of urban Linzhi, Zhao heat island and climate change on cuilding energy consumption in Nanjing's traditional urban center	Development and comparison of urban Poon, Kin Ho morphological solar energy and building energy consumption models using ANN and linear regression	Implementing Dynamo in IFC2Modelica Alzade, Abdella framework for enhanced parametrization
1115-1130	IFC-based setup of interior spaces for thermal comfort simulations using CFD Elisabeth  Building performance analysis at the design de Wilde, Pieter	Urban heat resilience evaluation and Deng, Lirui climate-responsive urban design for climate change adaptation  Assessing the impact of future climate on Lim, Eunkyung	The influence of vegetation structure on Rothe, Chinmay urban microclimate: A CFD analysis of urban Shashikant block and vegetation densities Evaluating green roof performance in Korea: Lee, Semin	Exploring the consistency of UGR Mahdavi, calculations, measurements, and Ardeshir evaluations Exploring on evaluation of human response Liang, Runqi	Identification of simplified control strategies Benali, Fatima in multisource optimisation for electric Zohra demand flexibility in building energy A decision-making method based on Wang, Liping	Urban form and energy demand-Impact of Deb, Chirag height and density height and density for low-energy design in Tropical climate Urban building energy simulation for Zhu, Yunxi	modeling with city information models: A critical review on the benefits and	The impact of irregular days on machine Wang, Jingrong learning predictions of office building load and corresponding optimization  Quantum approximate optimisation Han, Jung Min	Innovative Miscanthus-based materials El Khoueiry, Dolly
1130-1145	stage: A study into the challenges of BIM and BEM integration in the Swedish AEC industry	building energy performance with downscaled weather data in Korea	heating and cooling load impacts under future climate scenarios	to indoor daylighting environment using UES virtual reality modelling: a pilot study	economic and environmental life cycle analysis for sustainable controlled	performance analysis of an energy community model in the Italian context	city-scale for understanding building energy consumption	algorithm (QAOA) for surplus energy distribution in urban microgrids	Optimization of HVAC planning of large high- Yumino, Saori ceiling room for spacecrafts and satellites using CFD and optimization algorithm
1145-1200	Ventilation in an IFC-based BIM-BEPS workflow	strategies under future climate change scenarios	Examining the effect of heat mitigating Mohamed, strategies on outdoor air temperatures in an Maryam educational facility under the hot humid Mohamed Jaffar Geometric model thermal environment of Mao Huijun	Data-driven assessment of daylight metrics Ouyang, Fion for building visual environmental quality Yang  Validation of multispectral simulation tools. Amin. Gontar.	Machine learning-driven optimal control Wang, Li method for subway station VAC systems  A novel occupant-centric control framework. Anand, Prashant.	Constructing three-dimensional urban Su, Fengmin models for Urban Building Energy Modeling using UAV oblique imagery		Thermal performance predictor for campus Zeng, Tiancheng exterior spaces: a smart campus mobile application development	energy performance of closed-loop hydronic Dimitris heating systems
1200-1215	Using Large Multimodal Models (LMM) to Hviid, Christian digitalize scanned HVAC Schematics into Metadata Schemas for Buildings	composites to future-proof India and Biswajit Australia's residential buildings against	bus shelters and cooling behaviors of pedestrians in hot-humid areas—a case	for predicting non-visual lighting metrics across diverse daylight scenarios	for building to urban scale hybrid-energy simulation	Sensitivity analysis of albedo input settings Yoon, Daemin for vertical facades in community-scale solar irradiance simulation	A knowledge graph-based performance Wu, Zhaoji evaluation framework for sustainable residential block design	network-based turbulence modelling framework for outdoor wind field simulation	Evaluating the Practical Energy Saving Zhan, Sicheng Potential of a Personal Cooling System in the Tropics
1215-1230	Building Information Model (BIM) and Life Guizar Dena,  Cycle Analysis tools: A comparative study Andrés Jonathan with specialized software for environmental	Divergent: Passive buildings provide thermal Thounaojam, resilience in a dystopian warming climate. Amanda	The impact of Chinese wellness habits on Li, Jiahui cooling-related behaviors of urban residents	Comparative Analysis of Glare Indices in Lee, Jisoo indoor Environments Affected by Reflected Sunlight	Generation of synthetic load profiles for Piscitelli, Marco different typologies of residential users Savino through metadata-driven generative Al	Urban spatial microclimate prediction with Hu, Maomao morphological map-based ensemble deep learning method	Characterization of the building stock in the Borelli, Gregorio mountain environment: correlations between natural context, building geometry	Fast prediction of urban wind distribution Wang, Houzhi with deep learning-based surrogate models	Simple Tool to Evaluate the Performance of Petersen, Steffen Model Predictive Control of Space Heating in the Early Stages of Building Design
Lunch	performance of buildings			Sumgit	models  Poster sessions - in fover	learning metrod	and energy performance		the early stages of building besign
Lunch 1230-1330 Theme	Climate Change Mitigation & Adaptation CCMA	Climate Change Mitigation & Adaptation CCMA	Climate Change Mitigation & Adaptation CCMA	Indoor Environment Quality IEQ	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES	Urban Planning & Smart Cities UPSC	Innovative Design Exploration & Industry Transformation
Theme	Climate Change Mitigation & Adaptation CCMA  Session Chair: TBC	Climate Change Mitigation & Adaptation CCMA  Session Chair: TBC	Climate Change Mitigation & Adaptation CCMA  Session Chair: TBC	Indoor Environment Quality IEQ  Session Chair: TBC	Energy Efficiency and Sustainability EES  Session Chair: TBC	Energy Efficiency and Sustainability EES  Session Chair: TBC	Energy Efficiency and Sustainability EES  Session Chair: TBC	Urban Planning & Smart Cities UPSC  Session Chair: TBC	IDEIT Session Chair: TBC
1330-1345	Urban microclimatic simulation as a tool for Siz-Mellado, social cohesion and improvement in Eduardo deprived areas, a case study	Embodied carbon emissions of the Hu, Ming residential building stock in the united states and the effectiveness of mitigation	Optimization of ventilation corridor design Shen, Xiaohan parameters based on ventilation performance across different urban forms	Comparative analysis of daylight, view, and Kim, Jaeha visual privacy: a New York City case study	Using timber-based panels to retrofit old Park, Junsung university buildings in Korea for carbon emission reduction: A comparative study	Single family residence energy efficiency Li, Qinbo impacts on emissions reduction and energy saving life cycle analysis	Practically feasible and novel approach for Mustafa, Murat predicting electrical power demand of multiple dwellings using a digital tool in	Shaping digital twins: exploring uav and web-Hu, Dingkun based 3d modeling technologies for sustainable building simulation	Energy performance assessment of climate Hong, Wontaek adaptive building envelopes using shading masks
1345-1400	Modeling resilient multi-energy systems for Zuo, Wangda rural, remote, and disadvantaged communities: A review	strategies Towards a low-carbon countryside: Lifecycle Ye, Yihang embedded carbon emission analysis and reduction recommendations for farmhouses	Evaluating the effectiveness of building Gallardo, Andrés retrofit strategies for reducing indoor overheating risks in elderly apartments	Including households' comfort elasticities in Willems, Sara model predictive controllers	using LCA and energy performance Operational carbon impact of integrating Mezaien, Ahmed alternative cooling systems and renewables A. in arid homes	Estimating life-cycle carbon mitigation Zhang, Shihong potential of building integrated objoyoltaics (BIPV) facade at the city scale	building services industry A Q-Lattice and EnergyPlus coupled Pandey, Pratik modelling approach to estimate HVAC Raj energy consumption and natural ventilation	Predicting urban air temperature using UVA Hyun, Youha Infrared thermography and an artificial neural network	Building design approach in stack effect Sultanov, Emil calculation for complex cases. Multi-
1400-1415	Helium-based modelling approach for Qi, Dahai studying thermal-induced airflows in street canyon	Predicting Energy Demand discrepancies in Hamza, Neveen building simulation under climate change for thermally sensitive mental health care	Implications of window opening Cui, Cheng assumptions in English overheating regulation on assessing residential heat	BuildSysPro-IAQ: Impact of Energy systems Wall-Ribot, in French residential buildings on IAQ and Benedicte Energy Consumption.	Clarifying carbon reduction claims and Goldsworthy, pathways to their achievement using real- world buildings	Techno-economic and environmental Bani, Sanaz feasibility study of non-cloud based Smart Dual Fuel Switching System (SDFSS) for	Adaptation of the heating curve for heating Le, Huu Thoi systems	Archetype generation for the district-scale Schildt, Life Cycle Assessment of buildings Maximilian	Thermo-bimetal responsive building skins: Sinha, Ankita comparative analysis of self-actuated geometric patterning and user override on
1415-1430	Comparative analysis of cost-benefit Tseng, Hung Ming quantification methods for equitable resource allocation in building stock	How much will future climate change affect De Silva, Hashani building retrofits for energy equity?	Nationwide longitudinal study on Gupta, Rajat summertime overheating risk in English care	Assessing inter-sensor variability and Mathur, Vanitha calibration of low-cost IAQ sensors through co-location with reference devices	Renewable energy communities in Sweden: Al-Taie, Ziad a techno-economic analysis of single-owner, Amer multiple-consumer building-level energy	How optimal building decarbonization Dubois, Ryan pathways differ when considering energy burden and job creation	Review of a dynamic simulation approach Maton, Luca for heating system sizing	Urbanflow: an Al-driven platform for Ang, Yu Qian collaborative, multidisciplinary building-	Surrogate modeling of heat transfer in 3D-Bittencourt, printed facades with active learning Gustavo
1430-1445	Dynamic factors in life cycle assessment: Zong, Chujun systematic review and categorization	Urban climate control strategies and Palme, Massimo buildings' retrofitting: a simulation study in the UNESCO heritage site of Valparaiso,	Evaluating occupant behavior model Yin, Rumeng performance considering long-term time use change	Depressurization risk assessment in multi- unit residential buildings using pressurized corridor ventilation systems	Design guidance for net zero energy mixed- Chen, Jingyi use buildings in Seoul		h Development of a simulation tool to assess Lachance, Alex heat pump integration in Canadian homes	Enhancing microclimate modeling in tropical Lefevre, climates: validation of Envi-Met with Alexandre experimental data from Reunion Island	A stable geometry transformation module Xiao, Jun from 3D geometry data to building energy model
1445-1500	Carbon emissions during the design and construction phases of public works: a case study of council housing in Taiwan	Chile  Long-term analysis of felt-based living green Gocer, Ozgur walls: microclimate monitoring and simulation, althration	Integrating CityISON with building Morales, Richard performance simulation: A case study of summer indoor overheating in Antwerp	Experimental and simulated study on Jing, Wei thermal environment of large-scale indoor spaces using radiant panel heating-cooling	RapidRate's role in helping Australia move James, Melissa towards zero carbon homes	Optimizing a latent heat energy storage tank. Nasir, Alaa for a solar collector system: moving towards zero carbon.	Optimization of cold climate air-air heat Lachance, Alex pump sizing using simulation data	Innovative approach to enhancing the Ordenes Mizgier, reliability of urban microclimate simulations Martin Gabriel	A cross-scale normative encoding Li, Yihui representation method for 3D building
Afternoon tea	Study of council flousing in Taiwaii	amulation calibration	sammer macon overneating in Antwerp	system		zero carbon.			models suitable for graph neural networks
1500-1530					Poster sessions - in foyer				Innovative Design Exploration & Industry Transformation
Theme	Innovative Design Exploration & Industry Transformation IDEIT  Session Chair: Quentin Jackson	Climate Change Mitigation & Adaptation CCMA  Session Chair: TBC	Climate Change Mitigation & Adaptation CCMA  Session Chair: TBC	Indoor Environment Quality IEQ  Session Chair: TBC	Energy Efficiency and Sustainability EES  Session Chair: TBC	Energy Efficiency and Sustainability EES  Session Chair: TBC	Energy Efficiency and Sustainability EES  Session Chair: TBC	Urban Planning & Smart Cities UPSC  Session Chair: TBC	IDEIT Session Chair: TBC
1530-1545	Evaluating optical distortion in high Jones, Nathaniel L performance glazing	Heat Where It Hurts - Spatiotemporal Khalili Nasr, weighting for efficient heat impact Behrooz assessment in Vienna	How to combine direct and indirect adiabatic cooling into an air handling unit for resilient tertiary buildings	Analysis of the influence of CCT and Ra of common lighting sources on visual Ezzaddeen Ali experience and energy efficiency Mohammed	Activation strategies for decentralized booster heat pumps based on dynamic pricing models	The Cornwall: Improving wellbeing for rural Yang, Di older population in cold climates using locally available agriculture waste.	Alternative pathway for a nearly zero Seigne, Héloïse emission building stock in 2050	Integrating UHIE mitigating measures in the Rawal, Rajan urban planning process	Building Performance Simulation of a Cekon, Miroslav semitransparent Trombe wall Coupled with a Latent Thermal Energy Storage
1545-1600	Behaviour and light: A human-centric study Ganjehzadeh, on how choice and shared spaces influence Nazanin light exposure and wellbeing	Lei, Zhen explainable machine learning to evaluate building energy retrofit potential under urban heat island effects	A novel BIM-to-UHI workflow for integrating Campos-Rosa, UHI analysis as a key driver in BIM retrofit Lucia projects	Evaluating front yard greenery for enhanced Shishebori, Vali indoor environmental quality and energy efficiency	Simultaneous heating and cooling in Schito, Eva museums: evaluation of micro-encapsulated phase change slurry as a thermal storage	Socio-techno-economic optimization of Fiorentini, energy systems with seasonal thermal Massimo storage: a study on a Swiss single-family	ZEB retrofit planning methodology for Miyata, Masato existing office buildings using building energy simulation	Integrated optimization of urban open space Fu, Hanxun morphology for mitigating heat island effects and enhancing ventilation operformance	Variations in Operational Performance of an Ono, Eikichi Occupant-Centric Design due to Uncertainties in Occupants and Building Operation
1600-1615	Multi-objective optimization design of Zheng, Dongmei windows combining granular aerogel glazing and double glazing systems	High-resolution downscaling simulation of Jie, Pengyu urban wind-thermal environments: An interpretable machine learning analysis of	Scaling impact of urban green infrastructure Chen, Wenqi on urban climate and energy: A critical review	Performance comparison of lighting design Hermawan, objectives parameters based on calculation Ikhwan and simulation: case study of a pool hall and Muttagien	medium for multi-purpose heat pumps  Modeling and integration of photovoltaic Li, Guowen thermal hybrid solar collectors in a fifth- generation district heating and cooling	From Poverty to Power- Investigating Jana, Arnab essential energy services in low-income households in developing nations	Energy consumption pattern analysis of Ranavainshaw, housing in warm-humid climate Deepali		Operation Simplifying decision-making in model-based Louis, Hermans co-design of building energy systems through automatically generated optimal
1615-1630	Building for the Future - Considering future weather extremes in assessine building	urban morphology Machine Learning-based thermal Ei, Jingru environment classification and prediction for historical neighborhoods	Analytical dehumidification performance Goo, Jabin evaluation of a novel window-type liquid desiccant ventilation system based on CFD	café investigating the built-environment and Sarkar, Ahana behavioural prerequisites for occupant satisfaction within the low-income	network  Verification of the accuracy of the Degree Sako, Haruki  Day method using building simulation	Rebuilding in conflict-affected built Render, Elaina environments: a simulation-based Rose framework	Developing practical approaches and tools Ota, Nozomu for optimizing zeb designs	form uncertainty The influence of ancient city wall on cooling Song, Dan effect of water: A case study of Nanjing Ming City Wall	controls  Prediction of internal pressure and door Ito, Shogo operation risk in high-rise buildings under time-varying external conditions
1630-1645	weather extremes in assessing building energy efficiency	Using EPPY scripts to enable automated Sheng, Maggie building electrification modeling with flexibility and scalability	Revealing integration effects of the built and Wan, Qi operating environment of substation infrastructure from a multi-scale perspective	Lighting quality evaluation in underground Sui, Gerui public spaces — An integrated field and simulation study	A comparative study of residential building TJollyn, llya energy performance in Belgium utilizing three different solar panel configurations	An integrated EnergyPlus simulation Aydin, Mehmet framework for Building Information Akif modelling based building envelope generative design	Impact of Space Utilization on Energy Cost and Energy Performance of a nearly Zero- Emissions Office Building Alireza	CFD Simulation Analysis of the Impact of Li, Lee Kwan Additions on the Environment of Historical Settlements under Humid and Hot Climate Conditions	Demonstrating the feasibility of LLMs to Sur, Dipashreya develop complex building energy models A.
1645-1700	Student Competition Presentation 1	Data acquisition on building systems and Oikawa, Nana operations in Urban Building Energy Modeling	The influence of vegetation on the thermal Galán Marín, comfort of open transitional spaces Carmen	Exploring energy implications in a mixed- mode building by linking air quality and occupant behaviour	A shadow-cost-based long-term model Jansen, Jelger predictive controller for a solar-based district heating system with tank thermal	generative design Coupling of multi-zone dynamic energy Scheipers, simulations with life cycle assessment for residential building renovation Hannelore	Impact of refrigerant undercharge and Im, Piljae overcharge faults on building indoor conditions and HVAC system performance during cooling seasons: Field measurements	Clustering-based framework for large urban Phichetkunbodee	Integrating artificial intelligence in urban Guo, Mengdi design: A neural network-driven approach for noise mitigation optimization
1700-1715	Student Competition Presentation 2	Deep learning-based surrogate modeling for Zhang, optimal control of climate-responsive Chengshen adaptive façade systems	Modeling the impact of diverse extreme Rehman, Hassam climate scenarios on residential buildings ur with renewable energy and storage in cold regions: A techno-economic analysis	Personal Comfort Models in shared spaces: a Alamirah, review of trends, challenges, and future Haneen Nader directions	energy storage Advanced solar radiation decomposition Gevorgian, model: utilizing Random Forest-Symbolic Aleksandr Regression across diverse climatic zones	Exploring the energy and CO2 emissions Chi Pool, Doris implications of climate-responsive design Abigail strategies applied to residential dwellings in Latin America.	Radiant floors as a feasible solution for Bizzarri, Marco	Identification of simple dynamic Building- Van Hove, Stock Energy Models for the heat dynamics Matthias in residential buildings	Transfer learning of surrogate models for Evins, Ralph building energy prediction
1		1	regions. A tecnno-economic analysis	<del> </del>	<b> </b>	Laum America	<b>+</b>	<b>\</b>	i
1715-1730	Day Recap and Close: IBPSAA President - Quentin Jackson								







## PROGRAM SCHEDULE | DAY 3 - TUESDAY, AUGUST 26 - ALL ROOMS

0820-0900	Registration (arrival tea and coffee)								
1	Live Stream Room Plenary - Plaza Terrace Room	Mezzanine M1	Mezzanine M2	Plaza P1	Plaza P2	Plaza P3	Piaza P4	Plaza PS	S1
0845-0900	Welcome & IBPSA address IBPSAA Treasurer - Nicki Parker								
0900-0940	Keynote address: Al in Building Performance Professor Pieter de Simulation Wilde								
0940-0950	Sponsor Address: Aurecon								
0950-1030	Keynote address: How NABERS is reducing measured emissions and improving building PC Thomas simulation practice								
Morning tea 1030-1100					Poster sessions - in foyer				
Theme	Indoor Environment Quality IEQ	Climate Change Mitigation & Adaptation CCMA	Energy Efficiency and Sustainability EES	Indoor Environment Quality IEQ	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES	Urban Planning & Smart Cities UPSC	Innovative Design Exploration & Industry Transformation IDEIT
	Session Chair: TBC  Aleatoric and epistemic uncertainties in Kim, Sunghyun	Session Chair: TBC Estimating indoor mortality and heat risk in Nagy, Zoltan	Session Chair: TBC  Modelling the impact of occupant behaviour Gunay, Burak	Session Chair: TBC  An IoT Scheme for Energy Efficiency, IAQ Dehra, Himansh	Session Chair: TBC u Electrochemical Modelling of a Sodium Dehra, Himanshu	Session Chair: TBC Building renovation level requirements for a Dell'Isola, Anna	Session Chair: TBC A RAG-based framework for material Chen, Hongrui	Session Chair: TBC Impact of local weather in urban building Rajput, Mayuri	Session Chair: TBC Advanced parametric and machine learning Lyu, Yiwei
1100-1115	occupant behavior models for residential buildings: real-life cases	residential dwellings in extreme weather scenarios	on direct load control of HVAC systems	with Noise Characterization and Measurement in the Smart Building	Metal based Desalination Battery for Electrolysis and Trigeneration using Direct- Current Generator in Ships	Sth Generation District Heating and Cooling Network	matching in LCA: integrating semantic and character similarity with Al-driven explanations	simulation studies	techniques for reducing embodied carbon in concrete structures
1115-1130	Estimating the number of occupants using Kim, Jehyun machine learning based on carbon dioxide concentration data from IoT sensors in two	Evaluation of active mitigation measures in Wu, Yi improving residential district cooling resilience	Application of an Adaptive Gaussian Mixture Dahal, Sujit Regression for Fault Detection and Diagnosis across various HVAC Systems	Fast prediction model for indoor Wen, Shuqing temperature distribution based on adaptive spatio-temporal graph convolutional	A hybrid GSHP operation strategy to mitigate Park, Young-Joon ground temperature variations in ground heat exchangers	Model-based co-design of LowEx heat Weiß, Dirk supply and active thermal insulation systems	Multi-agent reinforcement learning Wang, Xiao approach for large cooling water system control	Modelling the error structure in Urban Wang, Chunxiac Building Energy Models with a Gaussian Process-based approach	Decarbonizing existing buildings using high-Faucher, Jasmin temperature ground-source heat pumps
1130-1145	Feasibility study on predicting personal Park, Jeongan thermal comfort using EEG in dynamically changing thermal environments	Evaluating global residential energy demand Gomi, Yushin based on decent living standards through bottom-up simulations	IBPSA Project 2 Building Optimization Wang, Zhe Testing Framework (BOPTEST): Overview, new software features, and example use	Long-range airborne infection analysis of a Xiao, Yao classroom under different occupancy scenarios	Comparing collective air-source and Verleyen, Lucas collective ground-source heat pumps in fully integrated, optimally controlled residential	Design and numerical modelling of seasonal Tosatto, Alice water-based tank-in-tank thermal energy storage for district heating systems	Development of an on-line Australian Chen, Dong residential building stock model	Safe reinforcement learning for smart Pagri, building's energy optimization with vehicle- to-everything (V2X) technology Febriyan	Deep learning foundation model framework Han, Jung Min ta for the surrogate modeling for efficient design exploration
1145-1200	Modelling and predicting classroom indoor Dong, Jierui air quality using machine learning algorithms	A digital platform for heatwave vulnerability Maratier, Julien assessment in non-air-conditioned residential buildings: Lyon Metropolis case	Price-aware RL for HVAC control: Wang, Xinlin maintaining comfort and enhancing flexibility validated across dual open-source	Predicting health risk due to Legionella De Jonge, Laura pneumophila bacteria while showering	A TRNSYS modeling approach to optimize Gallant, Mathilde the design and operation of heat pump systems in district energy networks	Integrated optimal control and borefield Hermans, Louis sizing for (small) hybrid heating and cooling systems	Analyzing the energy efficiency benefits of Ho, Julia Lien advanced control strategies in district cooling systems: a real-world case study	Estimation of occupant behavior by GMM- Yuasa, Masatak HMM with data measured by HEMS	surrogate modeling approach for diverse building designs and climates
1200-1215	A comprehensive review of machine Heidari Matin, learning techniques for optimizing daylight Negar in high-performance buildings	How much active cooling is needed in Onemar, Kätriin Estonian multifamily apartment buildings to comply with Category II thermal comfort?	Enhancing indoor air quality and energy Schluter, Philipp efficiency through life cycle cost analysis	Coupling health impact and building Fung, Siu-Fung performance: a virtual testbed for health- centric building system operation	Fast model for air source heat pump frosting Scoccia, Rossano and defrosting behavior	Transitioning to low-temperature district Sheikh Khan, heating: A large-scale feasibility mapping of Donya multi-family apartment buildings in Greater	Large-Scale Cooling System Modeling and Kim, Young-Sub Control Optimization of a Real-Life Building	A tale of twin cities Raming, Simon	Is Operative Temperature Control in early Design Stage Tools a reasonable Trade-off between Precision and Usability?
1215-1230	Improving indoor environment quality Ito, Sei through digital twin integration for office spaces	Analysis of multifactorial drivers of the Khalili Nars, Urban Heat Island effect in Vienna: A Behrooz scalable method for urban settings using open data sources.	Experimental analysis of an innovative RC- Wang, Huilong Mapping model for flexibility quantification of building air conditioning systems	Indoor thermo-photometric occupant's Rakotoarivelo, evaluation: what lies beneath perception, discomfort and preferences?	Hybrid Heat Pumps, the answer for the Videau, Jean- future electric grids? Baptiste	Development of a fast, dynamic tank Degelin, Alixe thermal energy storage model for system simulations.	Synergies in comfort, energy and cost by Maurer, removing the exhaust air between glazing Christoph and interior roller blind	A novel approach to generate occupancy Yang, Yiting schedules based on human mobility and listm-gan model	Paving the path to sustainability: Laterite Rangaswamy, quarry rejuvenation Deepa Rani
Lunch 1230-1330		100	1	T.	Poster sessions - in foyer	1	1	1	
Theme	Education	Climate Change Mitigation & Adaptation CCMA	Energy Efficiency and Sustainability EES	Indoor Environment Quality IEQ	Energy Efficiency and Sustainability EES	Urban Planning & Smart Cities UPSC			
	Facilitator: Pamela (Fennell	Session Chair: TBC  Bounding long-term building energy Crawley, Drury	Session Chair: TBC Lessons Learned from a Field Study on Deep- Lorenz, Clara-	Session Chair: TBC Using neural networks for the classification Sayegh, Hasan	Session Chair: TBC  Multi-objective optimization method Zhang, Zhe	Session Chair: TBC Optimizing energy efficiency and indoor Yuan, Jihui	Session Chair: TBC Unlocking calibration periods: energy Guerrero	Session Chair: TBC High-Fidelity Building Emulator for Yu, Tammie	Session Chair: TBC  A Parametric Study on the Impact of Building Zhao, Baikun
1330-1345		performance with single-year extreme weather files	Department of the State of the Control for Larissa Optimizing the Operation of Façade Ventilation Units	of activities in an office: An application for a better prediction of CO2 concentration in tertiary buildings	application based on genetic algorithm in energy and cost saving for existing houses in Australia	comfort through predictive models of building envelope heat transfer	clustering with white-box models Ramírez, Karla	Integrated Comfort and Energy Analysis using EnergyPlus and Radiance	Volume Extension on Potential for integrated solar energy utilization - A Case Study of Nanjing
1345-1400		Optimization of heating and cooling energy Salehipour demand and indoor thermal comfort under Bavarsad,	Evaluation of "Active Cavity Transition" Hiller, Marion (ACT) Facade modelling based on Measured	Toward multi-domain occupant-centric Mahdavi, indoor-environmental quality indicators Ardeshir	Optimizing retrofit strategies for terraced Ritosa, Katia dwellings: ConstrucThor case study	Multi-objective building envelope N Nair, Ajith	Standardizing the Quantification of the Odeh, Khaleel Energy Performance Gap in Buildings	Workflow to accurately model vegetation Grewal, Kuljeet	Investigating the full potential of demand Doma, Aya
1400-1415		oceanic climate conditions using machine Fatemeh	Data of a 1:1 Scale Test Mock-up			efficiency of educational buildings in India	Energy Performance Gap in Buildings	canopy effects in building energy simulation Singh	response programs using granular occupancy schedules
	Panel: Educating the next generation of BPS professionals—What	Comparing micro climate weather Li, Fengqi	Data of a 1:1 Scale Test Mock-up  Effects of the types of double-skin facades  on sunlight availability and potential food  self-sufficiency for agri-facades in temperate	Predicting sex-based thermal sensation favero, Matteo differences: a multilevel ordinal regression approach	Effective Retrofitting: Energy Efficiency Deng, Bianca measures for vintage buildings in Boston		Performance usp in auditings  Performance analysis of simple grey-box RC Decleyre, Merel models for simulating strategic heating reductions	canopy effects in building energy simulation Singh  Improving building stock energy models: a Zhang, Xukang bayesian calibration approach with multi-resolution data	response programs using granular
1415-1430	Panel: Educating the next generation of BPS professionals—What are the gaps?	Comparing micro climate weather Li, Fengqi	Effects of the types of double-skin facades Zhang, Xi on sunlight availability and potential food	Predicting sex-based thermal sensation Favero, Matteo differences: a multilevel ordinal regression	Effective Retrofitting: Energy Efficiency Deng, Bianca	efficiency of educational buildings in India  A comparative study on photovoltaic Bi, Qianru vacuum glazing (PVVG) for office buildings in	Performance analysis of simple grey-box RC Decleyre, Merel models for simulating strategic heating reductions	Improving building stock energy models: a Zhang, Xukang bayesian calibration approach with multi-	response programs using granular occupancy schedules  A Data-Driven analysis of electrical energy Ferrando,  use in Lombardy-Clustering and Statistical Martina
1415-1430 1430-1445	Panel: Educating the next generation of BPS professionals—What are the gaps?	Comparing micro climate weather LI, Fengqi conditions from the weather research and forecasting (with model with typical A novel approach of hourly weather data downscaling from GCM for building performance simulation	Effects of the types of double-skin facades on sunlight availability and potential food self-sufficiency for agri-facades in temperate Assessing solar performance in advanced facades: Comparative analysis of control	Predicting ser-based thermal sensation favero, Matteo differences: a multilevel ordinal regression approach Enhancing thermal confort in public spaces. Wang, Xiaotong through agent-based and performance-based modeling Sastio-temporal prediction of indoor thermal environment based on Graph Neural Networks and Recurrent Neural	Effective Retrofitting: Energy Efficiency measures for vintage buildings in Boston  Evaluating the impact of remodeling and purpose change on the performance and	efficiency of educational buildings in India  A comparative study on photovoltaic vacuum glazing (PVVG) for office buildings in Shanghai Semi-Passive Adaptation of Glazing Visible Transmittance for Optimizing Indoor	Performance analysis of simple grey-box RC Decleyre, Merel models for simulating strategic heating reductions  When deterministic models fall short: A Walnum, Harald motivation for enriching building Taxt	Improving building stock energy models: a Zhang, Xukang bayesian calibration approach with multi-resolution data investigating the sustainable design of a Laporte-shipping container building using advanced Chabasse,	response programs using granular occupancy schedules  A Data-Driven analysis of electrical energy Ferrando, use in Lombardy: Clustering and Statistical Martina Analysis  The importance of strongly coupling human Schumann, activity, appliance use and electricity tariffs. Mathieu
	Panel: Educating the next generation of BPS professionals.—What are the gaps?	Comparing micro climate weather conditions from the weather research and forecasting form finede with typical A novel approach of housily weather data downscaling from GCM for building from growth form for fined from form for fined from	Effects of the types of double-skin flacades Zhang, Xi on sunlight availability and potential flood self-sufficiency for spirit-acides in temperate Assessing solar performance in advanced facades: Comparative analysis of control strategies using a dynamic key performance Enhancing Livalue accuracy. A simulation— Song, Ahhyun based approach to louiling newologe	Predicting see-based thermal sensation favero, Matteo differences: a multilevel ordinal regression approach. Enhancing thermal comfort in public spaces. Wang, Xiaotong through agent-based and performance-based moderal particular differences and performance-based moderal production of indoor short moderal performance based moderal performance was produced to the production of indoor wang. Yingshan thermal environment based on Graph Care.	Effective Retrofitting Energy Efficiency measures for virtage buildings in Boston  Evaluating the impact of remodeling and  purpose change on the performance and  energy efficiency of modern educational  Divertarniging reword effects and  Lee, Doyeon  integrated energy signature analysis.	efficiency of educational buildings in India A comparative study on photovoitaic Bis, Qianru vacuum glazing (PWQ) for office buildings in Shanghal Frammittance for Optimizing floor Grammittance for Optimizing floor Davigithing Cooling potential of transparent roof spray Mao, Huijuin on public buildings: Evidence from hot-	Performance analysis of simple grey-box RC. Decleyre, Merel models for simulating strategic heating reductions  When deterministic models fall short: A modevation of the modevation for enriching building and the modevation for enriching building. Taxt and the modevation for enriching building are some simulation results on building performance simulation results  Are hourly building energy simulations. Make you will be supported to the moderestimating peak demand? A case for a support of the moderestimating peak demand? A case for the moderestimating peak demand?	Improving building stock energy models: a bayesian calibration approach with multi-resolution data investigating the sustainable design of a strapping container building using advanced Chabasse, building energy modeling and abyesian Alyvind approach for uncertainty quantification in dynamic building energy vystems modeling on the strapping container building energy systems modeling on the strapping container building energy systems modeling which will be supported by the strapping and the strapping container building energy systems modeling with one strapping and strapping the strapp	response programs using granular occupancy schedules le corcupancy schedules l
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1430-1445 1445-1500 Afternoon tea 1500-1530	Panel: Educating the next generation of BPS professionals—What are the gops?	Comparing micro climate weather Conditions from the weather research and forecasting form! model with typical Anovel approach of housing weather data downscaling from GCMs for building form growt general building energy great(clinace, Aperformance based multi-model ensemble approach improved urban canopy model for building form growth growt	Intents of the types of double-lakin fixedes' Zhang, Xi on smillight availability and profential food ustil-stifficiency for agri-facedes in temperate Assessing solar performance in advanced Gazzin, Riccardo discidest. Comparative enalysis of control strategies using a dynamic key performance Chanaring Livature accuracy: A simulation—song Abrhyun based approach to building envelope assessment  A reliable and simplified whole-of-home energy rating tool for housing retrofitting	Predicting sex-based thermal sensation differences: a multisevel ordinal regression approach Enhancing thermal confort in public spaces Enhancing thermal confort in public spaces Wang, Xiaotong through agent-based modeling Seato-temporal prediction of indoor thermal environment based on Graph Seato-temporal prediction of indoor thermal environment based on Graph Networks A study on the shielding effect of neck fan on Zhang, Haotian air pollulants at the mouth and nose area	Effective Retrofitting Energy Efficiency measures for virtuage buildings in Boston  Evaluating the impact of remodeling and purpose change not not performance and energy efficiency of modern educational Disentanging rebord effects and Leep, Doyeon construction errors in building retrofits using susteparted energy agrunture analysis and resultance building agrunture analysis and flexibility by means of transparent reproprise building envolpee ferments  Poster sessions - in foyer	efficiency of educational buildings in India  A comparative study on photovorbaic  Building (PVG) for office buildings in Shanghai  Semi-Passive Adaptation of Glaring Visible  Should Shanghai  Semi-Passive Adaptation of Glaring Visible  Transmittance for Optimizing Indoor  Davigithing  Cooling potential of transparent roof spray  on public buildings: Evidence from hot- humid areas  Davantifying the Simulation Reality Gap in  Building Simulations	Performance analysis of simple grey-box RC. Decleyre, Merel models for simulating strategic heating reductions When deterministic models fall short: A modevation of models fall short: A modevation for enriching building Taxt and simulations with data-driven stochasticity Assessing the impact of modelling variability Yang, Jingxuan on building performance simulation results Ach hourly building energy simulations underestimating peak demand? A case for finer time resolutions.	Improving building stock energy models: a bayesian calibration approach with multi-resolution data investigating the sustainable design of a tabeging contained building using advanced Chabass, advanced building energy modeling and advanced Chabass, Alyviera sproaching and advanced Chabass, and Anyviera sproaching and dayesian Design of the Chabass, and the Chab	response programs using granular occupancy schedules delectrical energy concupancy schedules delectrical energy care in Lombardy Chustening and Statistical Martina  The importance of strongly coupling human Statistical Activity, appliance use and efectricity artiffs. Matheu for load curve simulation in the residential Assessing data use see and efectricity artiffs. Matheu energy model energy model  Assessing padestrian level barriers using mobile robot to achieve 15-minute city concept
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Rush, Megan underestimation resolutions.	Improving building stock energy models: a bayesian calibration approach with multi- resolution data investigating the sustainable design of a studying control to the studying contained building energy advanced Chabassa, dualding energy modeling and dayesian Alyvind approach for uncertainty a dayed and a studying contained building energy systems modeling. Developing early design stages tools for windrows considering by conditions, solar radiation, and shading control  Energy Efficiency and Sustainability EES  Session Chair TBC  Validation of a meal-scale luthan Building Sandoval Business Model of domestic peak heating load Businamante, large Model of domestic peak heating load Businamante, sound and the studying Sandoval business of the studyin	response programs using ganular occupancy schedules of electric concupancy schedules of electric denergy use in Lombardy Chutering and Statistical Martina Charles Cha
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ACFO Stady on the impact of User-Adjusted Loeser, Brenda WKK System Controls in Open-Plan Offices  Assessing energy assings potential of Febricio, Enrice Personalised Environmental Comport	Effective Retrofitting Energy Efficiency measures for virtuage buildings in Botton  Evaluating the impact of remodeling and purpose change not the performance and energy efficiency of modern educational Disentanging growth on the performance and energy efficiency of modern educational Lee, Doycon construction errors in building retrofits using susquested energy agreatures analysis and leavance building agreatures analysis and leavance building synamures analysis and leavance building synamures analysis.  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Decleyre, Meerl models for simulating strategic heating reductions  When deterministic models fall short: A model with the control of the cont	Improving building stock energy models: a bayesian calibration approach with multi-resolution data investigating the sustainable design of a studying control and approach subging contained building using advanced chabassa, designing contained and shapetain A hydrid approach for nucertainty approach of the property systems modeling and shapetain and approach of the property systems modeling. Developing early design stages tools for windrows considering by conditions, solar radiation, and shading control  Energy Efficiency and Sustainability EES  Session Chair TBC  Validation of a meso-case Unlane Building. Sendous for systems and annual heat demand in England and Javier  Scotland  Development and sulfidation of a generic and annual heat demand in England and Javier  Southeast and Service Chair TBC  Sufficiency first. Combining sufficiency evaporator model of chillers  Sufficiency first. Combining sufficiency measures with optimal retrofitting to reach nect-zero residential buildings in Switzerland  Clausational building revolts: a data short with the measure with optimal retrofitting to reach nect-zero residential buildings in Switzerland  Clausational buildings in Switz	response programs using granular occupancy schedules in Concupancy in Concupan
1430-1445  1445-1500  Afternoon tea 1500-1530  Theme  1530-1545  1545-1600  1600-1615  1615-1630  1630-1645	are one gapsy	Comparing micro climate weather conditions from the weather research and forecasting wiff model with typical A novel approach of hourly weather data downscaling from GCM for building performance similaring climate model accusacy for solution grimate model accusacy for microwacy for accusacy for solution grimate model accusacy for microwacy for accusacy for solution grimate model accusacy for microwacy for for m	streets of the types of double-skin facades' Zhang, Xi on sulpife availability and potential food self-sufficiency for agrif-lacedes in temperate Assessing solar performance in advanced Gazzin, Riccardo dacades: Comparative analysis of control strategies using a dynamic key performance Enhancing U-value accuracy. A simulation-bond approach to louding enerology assessment.  A reliable and simplified whole-of-home energy rating tool for housing retrofitting  UBEM  Session Chair: Martina Ferrando Francesco Causone  Workshop: Archetypes for Urban Building Energy Modelling	Predicting sev-based thermal sensation differences: a multisevel ordinal regression papersach.  Enhancing thermal comfort in public spaces  Enhancing thermal comfort in public spaces  Wang, Xiaotong through agent based and performance have madeling prediction of indoor Spaces and performance madeling prediction of indoor Spaces are reported by the property of the	Effective Retrofitting Energy Efficiency measures for virtage buildings in Botton  Evaluating the impact of remdeling and purpose change on the performance and energy efficiency of modern educational Disertanging produced in the performance and energy efficiency of modern educational Lee, Doyvon construction errors in building retrofits using susquested energy agreators analysis and leavance building signatures analysis and leavance building energy independence and flexibility by means of transparent propositive building energy independence and flexibility by means of transparent propositive building energy independence and flexibility by means of transparent propositive building energy flexibility and the propositive building energy flexibility and sustainability EES  Energy Efficiency and Sustainability EES  Bridging methodological gaps in building life Sainti, Himanshu cycle assessment a case study in the Indian context  Energy arining potential analysis of Indoor Goo, Jabin strategies based on building energy simulation  Oysamic integrated modelling for controlled Wang, Uping environment agriculture-methodology and experiment and energy consumption data to Oysamic integrated modelling for controlled Wang, Uping environment agriculture-methodology and energy consumption data to Oysamic integrated modelling for controlled Wang, Uping environment agriculture-methodology and energy consumption data to Oysamic integrated modelling for controlled Wang, Uping environment agriculture-methodology and energy consumption data to Oysamic integrated modelling for controlled Wang, Uping environment agriculture-methodology and energy consumption data to Oysamic integrated in the Amerowork of Control Strategies in Model of Control Strategies in Mo	efficiency of educational buildings in hidal  A comparative study on photovorbaic  Bacomparative study on photovorbaic  Bacomparative study of the buildings in Shanghai  Semi-Passive Adaptation of Glazing Visible  Mao, Huijun  Mao	Pofformance analysis of simple grey-box RC.  Walnum, Harald Taxt  Walnum, Harald Taxt	Improving building stock energy models: a bayesian calibration approach with multi- resolution data in the control of the cont	response programs using ganular occupancy scheduled in electrical energy concupancy scheduled in electrical energy continues to the continues of the continues







## PROGRAM SCHEDULE | DAY 4 - WEDNESDAY, AUGUST 27 - ALL ROOMS

0820-0900	Registration (arrival tea and coffee)								
0045 0000	Plenary - Plaza Terrace Room  IBPSAA President -	Mezzanine M1	Mezzanine M2	Plaza P1	Plaza P2	Plaza P3	Plaza P4	Plaza P5	\$1
0845-0900	Welcome & IBPSA address Quentin Jackson								
0900-0940	AGM, IBPSA Awards & Student Competition Award								
0940-0950	Sponsor Address: Design Builder - PC Thomas								
	-	-							
	Keynote address: The useful lie: QA in BPS  ord the guest for ends compliance  Dr Mike Donn								
0945-1030	and the quest for code compliance								
Morning tea 1030-1100					Poster sessions - in foyer				
Theme	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES	Indoor Environment Quality IEQ	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES		
						Session Chair: TBC			
	Session Chair: TBC Using CFD as an energy efficiency design tool Vogt, Jonathan	Facilitator: Priya Gandhi	Session Chair: TBC  Energy Performance Gap in a Net-Zero Dehra, Himanshu	Session Chair: TBC  Determining the optimal specifications of Merabtine,	Session Chair: TBC  Research on energy influence factors and Ji, Ying	Session Chair: TBC  Harnessing digital twin for simulation Bana, Ataitiya	Session Chair: TBC Simplified energetic assessment of complex – Languer, Normen	Session Chair: TBC	Session Chair: TBC
1100-1115	for an auditorium and airport baggage hall William		Building: Taxonomy of Noise and Entropy	cooling systems in highly glazed buildings Abdelatif	operational optimization strategies of	performance analysis, using a hempcrete Paterson	properties through single-zone modeling		
			Indices for Power, Exergy and Energy Availability	using design of experiments method	subway station HVAC systems: A case study of Suzhou	building			
1115-1130	Green walls for solar shading: a novel Rugani, Roberto thermal performance model applied to a		Explainable transfer learning for activity Amayri, Manar recognition in smart buildings	The impact of virtual reality-simulated Lin, Hanfei learning space design on high school	Evaluating local energy sharing potential for Ben, Hui enabling net zero energy communities	Al-Driven multi-objective optimization of Rangaswamy, pavement and roofing strategies for Deepa Rani	Operational energy-saving rate prediction of Meng, Xiangzan one office building renovated to comply	1	
1115-1130	case study			students' attention and stress levels: An		enhanced thermal comfort in urban Indian	with GB 55015-2021 under three different		
1130-1145	Simulating cooling loads for personal Rawal, Rajan environment comfort systems		Innovative design of adjustable multi-slat Nazari, Sarah photovoltaic shading devices for energy-	Topological optimization of 3DP plasters for Gentile, Vincen: indoor moisture buffering	o Impact of occupancy patterns on buildings Hamdy, performances gaps: how the gap is sensitive Mohamed	Toward urban decarbonization: Felkner, Juliana environmental and financial evaluation of	Comparative evaluation of ANN and NARX Elnabawi, models for localized air temperature Mohamed		
1130-1143		Panel: From performance to policy - how to bring NABERS to	efficient office spaces in Sydney	-	to stochastic occupancy behavior?	neighborhood-scale multifamily retrofit	prediction in Al Ain, UAE Hussein	]	
1145-1200	Comparison of a "model of the model" Hudjetz, Stefan approach with directly measured reference	your country	Contribution of CFD simulation on the Barone, Flavia design and characterization of a wind tunnel	A Simulation-Based Approach to Assess and Cappelletti, Support Acoustic Characterization and Francesca	Towards a digital shadow: Methodology Wildfeuer, development for continuous commissioning Johannes Nicolás	Adaptive energy management of Swedish Moshari, residential buildings using artificial Amirhosein	ETNA empirical validation: initial steady- Neymark, Joel state cases and simulation trials		
-245 2200	values for assessing the energy efficiency of		for air leakage measurements	Desing in Classrooms	of domestic hot water systems	intelligence and reinforcement learning for		_	
1200-1215	IBPSA Modelica Working Group: Open- source model development based on open		Evaluating the descriptive and predictive Azad Gilani, ability of the grey-box modelling technique Hooman	Bayesian optimization of supply air direction Chen, Chun in existing aircraft for cabin air quality	Strengthening the effectiveness of building Chiu, Hung-Chi energy efficiency labels for existing office	Finding the root cause of a control issues, Marston, Annie does an artificial intelligence optimise a	Correlation analysis between energy Lin, Deqing conservation potential and spatial form of		
	standards to accelerate decarbonization		during summertime in a Passivhaus office	improvement	buildings in Taiwan	building more effectively than automated	existing buildings in hot summer and cold		
1215-1230	Design guidelines based on the impact of Iddio, Emmanuel indoor living walls on building cooling		Sensitivity analysis of US housing stock Supriyatno, building characteristics using ResStock Alessandro	Thickness-dependent coupled thermo- optical model of translucent material: a case	Perfect Matching: Comparison of methods Hammes, Sascha for deriving energy-optimized occupancy	Summer thermal control through window- Weger, Regina integrated ventilation systems in a real	The influence of Spatial Volume on building Guo, Jiayi performance in Sports Arenas		
1215-1230	energy consumption			study of glazing unit filled with granular silica aerogel	schemes	laboratory			
Lunch 1230-1330	•		<u> </u>				l.		
					Poster sessions - in foyer				
	Urban Planning & Smart Cities UPSC	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES		Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES		
Theme	Urban Planning & Smart Cities UPSC	Energy Efficiency and Sustainability EES	Energy Efficiency and Sustainability EES Session Chair: TRC	Energy Efficiency and Sustainability EES Session Chair: TRC	Poster sessions - in foyer  Energy Efficiency and Sustainability EES  Session Chair: TRC	Energy Efficiency and Sustainability EES Session Chair: TRC	Energy Efficiency and Sustainability EES Session Chair: TBC	Session Chair: TRC	Session Chair: TRC
Theme	Session Chair: TBC  Deriving high-fidelity residential building Li, Chengxuan	Energy Efficiency and Sustainability EES Pieter de Wilde	Session Chair: TBC Inverse Physics-Informed Neural Networks Kim, You-Jeong	Session Chair: TBC Thermal environment analysis of a radiant Yang, Xianzhe	Energy Efficiency and Sustainability EES  Session Chair: TBC  On the use of latent thermal energy storage Slaviero,	Session Chair: TBC  Validation of CIE sky models using Bhalla, Ankit	Session Chair: TBC Case study on Analysing Whole Carbon Cho, Suhyun	Session Chair: TBC	Session Chair: TBC
	Session Chair: TBC  Deriving high-fidelity residential building archetypes and typical usage patterns from national energy use surveys to enhance		Session Chair: TBC	Session Chair: TBC Thermal environment analysis of a radiant Yang, Xianzhe floor cooling and underfloor air-conditioning system based on detailed building physics	Energy Efficiency and Sustainability EES  Session Chair: TBC	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC	Session Chair: TBC
Theme	Session Chair: TBC  Deriving high-fidelity residential building U, Chengxuan archetypes and typical usage patterns from national energy use surveys to enhance "initial sussess" for Urban Buildine Energy		Session Chair: TBC Inverse Physics-Informed Neural Networks Kim, You-Jeong for thermal parameter estimation of existing	Session Chair: TBC Thermal environment analysis of a radiant floor cooling and underfloor air-conditioning system based on detailed building physics using coupled BES-CFD	Energy Efficiency and Sustainability EES  Session Chair: TBC On the use of latent thermal energy storage. Slaviero, to cut the energy costs in space cooling: from Gianluca lab to home	Session Chair: TBC  Validation of CIE sky models using Bhalla, Ankit luminance data from Gurgaon and Chennai, India	Session Chair: TBC Case study on Analysing Whole Carbon Cho, Suhyun Emissions based on Actual Energy Consumption in Existing Buildings	Session Chair: TBC	Session Chair: TRC
Theme	Deriving high-fidelity residential building archetypes and yolgal usage patterns from national energy use surveys to enhance "initial guesser" for Uthan Building finergy Integrating TRMSYS and CityOML in urban district simulations. A comprehensive sease		Session Chair:TBC  Inverse Physic-Informed Neural Networks for thermal parameter estimation of existing buildings  Case study of residential energy  Kadir, Nourin management systems with solar PV, wind	Session Chair: TBC Thermal environment analysis of a radiant floor cooling and underfloor air-conditioning system based on detailed building physics using coupled BESC-CFD Optimizing indoor environment and energy Zygmunt, Marci consumption in a museum building using	Energy Efficiency and Sustainability EES  Session Chair: TEC On the use of latent thermal energy storage. Slaviero, to cut the energy costs in space cooling: from Glanluca lab to home.  (Urban bulsting energy modeling challenges: Kim, Yeeun Evaluating morning approaches and windows.)	Session Chair: TBC  Validation of CIE sky models using Bhalla, Ankit	Session Chair: TBC Case study on Analysing Whole Carbon Emissions based on Actual Energy Consumption in Existing Buildings The influence of cement addition on Total, Cheng Yen motiture variation in the restoration of lime	Session Chair: TBC	Session Chair, TRC
Theme	Session Chair TBC  Deriving high-fidelity residential building archetypes and typical usage patterns from national energy use surveys to enhance "initial guesser" for Usah Building Energy Integrating TRBISYS and CRyGAII. in urban didirtist simulations. A comprehensive session study in urban energy systems than the property of the comprehensive session of the com		Session Chair: TBC Inverse Physics-Informed Neural Networks Kim, You-Jeong for thermal parameter estimation of oxisting buildings Case study of residential energy management systems with solair PV, wind and battery energy storage Predictive and transactive controls for EVE Kadir, Nourin	Session Chair: TBC Thermal environment analysis of a radiunt: Yang, Xianuhe floor cooling and underfloor air-conditioning system based on detailed building physics using coupled BIS-CFD) Optimizing indoor environment and energy consumption in a museum building using specialized data-frives software	Energy Efficiency and Sustainability EES  Session Chair: TRC On the use of latent thermal energy storage. Slaviero, to cut the energy costs in space cooling: from Glanhuca lab to how the energy costs in space cooling: from Glanhuca lab to how the space of the cooling from Glanhuca lab to how the space of the cooling from Glanhuca lab to how the space of the cooling from Glanhuca lab to how the space of the cooling from Glanhuca lab to how the space of the cooling from Glanhuca lab to how the space of the cooling from the coolin	Session Chair: TBC  Mildation of CE sky models using Bhalla, Ankit luminance data from Gurgson and Chennai, india india Bhalla Bhalla Ankit luminance data from Gurgson and Chennai, india india Bhancing BIPV performance through fin integration: A co-simulation approach integration: A co-simulation approach Battery storage potential in meeting NZEB Vösa, Karl-Villem	Case study on Analysing Whole Carbon Cho, Suhyun Chrissions based on Actual Energy Consumption in Existing Buildings  The influence of cement addition on Tsali, Cheng Yen moisture variation in the restoration of lime base brick walls  Developing a Calibrated in-vitu hygorthermal McNally, Jordan	Session Chair: TBC	Session Chair: TBC
Theme	Session Chair TBC.  Deriving high-fidelity residential building archetypes and hybrid usage patterns from national energy use surveys to enhance recognition of the control		Session Chair: TBC Inverse Physics-Informed Neural Networks Kim, You-Jeong for thermal parameter estimation of existing buildings Case study of residential energy Kadir, Nourin management systems with solar PV, wind and battery energy stronge	Session Chair: TBC Thermal environment analysis of a radiant floor cooling and underfloor air-conditioning system based on detailed building physics using coupled BESC-CFD Optimizing indoor environment and energy Zygmunt, Marci consumption in a museum building using	Energy Efficiency and Sustainability EES  Session Chair: TBC On the use of latent thermal energy storage. Slaviero, to cut the energy costs in space coding from Gambura also to home. Use the contract of the	Session Chair: TBC Validation of CIE sky models using Bhalla, Ankit luminance data from Gurgaon and Chennai, India Enhancing BIPV performance through fin Alzade, Abdella	Session Chair: TBC  Case study on Analysing Whole Carbon Emissions based on Actual Energy Consumption in Existing Buildings  The influence of center steddiscing on misciture variation in the restoration of lime base brick walls  Developing a calibrated in risk in bygothermal McNally, sordan model of a community center to asset	Session Chair: TBC	Session Chair: TBC
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1330-1345 1345-1400 1400-1415	Session Chair TBC  Derning high-fidelity residents building an Chetypes and hydrole usegs patterns from an archetypes and hydrole usegs patterns from "Initial geneses" for Uban Building Energy Integrating TBOSTO and CrysMin In unit under Integrating TBOSTO and CrysMin		Session Chair: TBC  Inverse Physics-informed Neural Networks  for thermal parameter estimation of existing buildings  Case study of residential energy  Kadir, Nourin management systems with solar PV, wind and butlery energy storage  Predictive and transactive controls for EVE  Kadir, Nourin park net-zero community with Al/ML models	Session Chair: TBC Thermal environment analysis of a radiant. Yang, Xianzhe floor cooling and underfloor air-conditioning system based on detailed building physics using coupled 85z-CF0 Optimizing indoor environment and energy 2ygmunt, Marci consumption in a museum building updated and the consumption in a museum building specialized data-driven software Occupancy profile or desidential buildings André, Maira with remote workers	Energy Efficiency and Sustainability EES Session Carbon TRC On the use of latent thermal energy stronge. Sliviero, to cut the energy costs in space cooling: from Glanfuca tab to home Urban building energy modeling challenges: Kim, Yeeun Evaluating soring approaches and window Waltindimensional later of defail (InC) specification for urban energy models	Session Chair: TBC  Mildation of CE sky models using Bhalla, Ankit Iuminance data from Gurgson and Chennai, India  Enhancing BIPV performance through fin integration: Acc simulation apprach  Battery storage potential in meeting NZEB Vösa, Karl-Villem energy performance requirements in Estonia	Case study on Analysing Whole Carbon  Emissions based on Actual Energy Consumption in Existing Buildings  The influence of cement additions  The influence of cement addition on Tsal, Cheng Yem mosture variation in the restoration of lime base brick walls  Developing a calibrated in-situ hygrothermal McNally, Jordan model of a community center to assess panelled exterior retrofit design suitability.	Session Chair: TBC	Session Chair: TRC
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