



		2024 APSRC			
		3rd to 5th December			
3-Dec	7.45am	Registration opens			
	TUES 8.45 - 9.00	Welcome from 2024 APSRC Conference Chair and "Welcome to Country" Location: Mascot Ballroom BC, 1st Floor			
	9.00 - 10.30	DAY 1 Plenary Session Location: Mascot Ballroom, 1st Floor Chair: Ken Guthrie (SET)			
	9.00am	Dr. Gabrielle Kuiper, Guest Contributor with IEEFA and DER Specialist for Integrate to Zero Presentation: "More than half the solution? DER's role in energy and transport decarbonisation"			
	9.30am	Dr. Stephen White, Head of Energy Performance Research, CSIRO Presentation: "Enabling Flexibility from Buildings"			
	10.00am	Distinguished Professor Sarah Kurtz, University of California Merced Presentation: "Establishing reliability of new products: essential vs impossible"			
	10.30 - 11.00	Morning Tea			
	11.00 - 12.30	Concurrent Sessions KEY: *G = Nominated for a General Award (Wal Read or Muriel Watt Awards), *S = Nominated for a Stream Award			
		PV Devices Characterisation Chairs: Khoa Nguyen and Michelle Contreras Location: Mascot Ballroom BC	Concentrating Solar Thermal Power and Process Heat Chair: Wil Gardner Location: Kurnell Room	Solar Buildings & Solar Heating and Cooling Heat Pumps & Solar Heating Chair: Robert Taylor Location: Kingsford Room	Renewable Energy Deployment & Integration Developing countries & Microgrids Chair: Rob Passey Location: Botany Room
	11.00 - 11.15	Rama Sharma (*G), UNSW - "Automated Multiclass and Severity Classification of Defects in Photovoltaic Module Luminescence Images using Unsupervised Machine Learning"	Ye Wang, ANU - "Techno-economic Analysis of Concentrating Solar Thermal for Supplying High-Temperature Industrial Process Heat"	Guy Pritchard, Solar Victoria (DEECA) - Efficiency at scale - harnessing the power of hot water technology	Developing countries: Richard Corkish, UNSW - "Progress of UNSW Energie Renouvelable Vanuatu for Tanna Island communities, 2024"
	11.15 - 11.30	Gaia Maria Javier (*G,*S), UNSW - "Efficiency loss analysis in solar cells using explainable AI on I-V data and luminescence images"	Daniel Potter, CSIRO - "Characterisation of optical errors for Solar Field 2 at CSIRO Newcastle"	David Ferrari, MOMENT - Consumer protections for heat pump water heater products"	Developing countries: Ajay Kumar Jha, Tribhuvan University - "Equitable Access to Green Agriculture through Solar Irrigation Technologies in Nepal"
	11.30 - 11.45	Aneeqa Shaikh (*G), ANU - "Characterization of light-trapping properties of silicon wafers via photoluminescence spectra"	David Bisset - "Practical aspects of Piecewise-Focusing (PWF) collector design"	Ruby Klisser, UNSW - "Customer Hot Water Roadmap"	Developing countries: Phillip Hamer, UNSW - "Developing a Renewable Energy (Solar) Planning Tool for Cambodia"
	11.45 - 12.00	Hugh Gottlieb, UNSW - "Series resistance power loss analysis from daylight photoluminescence imaging"	Jonathan Perry, Newcastle University - "Electrically Assisted Thermochemical Water Splitting Based on Ceria"	Dean Clift, Rheem - "Improved time-series modelling of Air Source Heat Pumps for water heating."	Developing countries: Joshua Geller (*G,*S), UNSW - "Towards Greater Nuance in Energy Access: Lessons from Fiji's Rural Electrification Program"
	12.00 - 12.15	Zhuofeng LI, ANU - "Measuring hydrogen diffusion in monocrystalline silicon"	General Discussion	Alastair McDowell, Energy Analysis and Engineering - "Heat Pump Water Heater Simulation with EN14511"	Microgrids: Hanrong Huang, UNSW - "Decarbonising Copper Ore Processing In Australia with Hybrid Microgrids: The Role of Dispatch Strategy and Demand-Side Flexibility"
	12.15 - 12.30	Felix Gayot, UNSW - "Contactless External Quantum Efficiency Evaluation of Thin-Film Solar Cells"		Hossein Saberi (*G), UNSW - "Impact of Coordinated Electric Water Heating on a Distribution Network with High Solar PV Penetration"	Microgrids: Nicole Robinson, UNSW - "Decarbonising Mining in Australia using off-grid Solar, Battery, and Diesel Hybrid Systems"
	12.30 - 1.30	Lunch			
	1.30 - 3.00	Concurrent Sessions KEY: *G = Nominated for a General Award (Wal Read or Muriel Watt Awards), *S = Nominated for a Stream Award			
		PV Devices Perovskite - efficiency, stability & scalability Chairs: Meng Zhang and Felix Gayot Location: Mascot Ballroom BC	Concentrating Solar Thermal Power and Process Heat Chair: Wil Gardner Location: Kurnell Room	Solar Buildings & Solar Heating and Cooling Solar Buildings Chair: Rebecca Yang Location: Kingsford Room	Renewable Energy Deployment & Integration EoL, Degradation & Hydrogen Chair: Roger Dargaville Location: Botany Room
	1.30 - 1.45	Narendra Pai (*G), CSIRO - "Unlocking the Potential of all-inorganic Perovskite: Low-Temperature Ambient Stabilization of Black Phase with Additive Engineering"	Ahmed Eissa, UNSW - "Minimising dead zones for a novel CST/Non Concentrated Photovoltaic Module (CT/PV)"	INVITED SPEAKER Alistair Sproul, HoS, SPREE - "Race to net zero carbon-built environment - people, planning and policies"	EoL: Peter Leung, Sydney University - "Evaluating Photovoltaic Technology Developments in Terms of Circularity with a new perspective"
	1.45 - 2.00	Yong Li (*G), CSIRO - "Perovskite formation utilising chemical vapor deposition (CVD) technology"	Haftom Weldekidan, CSIRO - "Solar Thermal Process Integration in Mining Sector: The Pathway for Net-Zero Emissions Target"		EoL: Moonyong Kim, UNSW - "Comparative evaluation of industrial PV modules on material usage and environmental impacts with different module and frame types"
	2.00 - 2.15	Jianpeng Yi, Sydney University - "Rapid CO2 Laser Ambient Annealing for Fabricating Wide Bandgap Perovskite Solar Cells"	Tim Anderson, UoUW, - "Uneven fluidisation of a square fluidised bed solar receiver"	Simon Heslop, UNSW - "Carseldine Ecovillage - A case study for data driven residential building thermal models"	EoL: Rama Sharma, UNSW - "Optimising Lifecycle Management for Utility-Scale Photovoltaic Systems: An Integrated Electrical, Economic, and Environmental Strategy"
	2.15 - 2.30	Dang-Thuan Nguyen, ANU - "Universal Buried Interface Modification with Lead Iodide for Efficient and Stable Perovskite Solar Cells"	Sahar Bakhshipour (*G), Uni Adelaide - "Wind Loads on Tandem Heliostats at Different Azimuth Angles"	Trevor Lee, Exemplary Energy - "Enhancing Australia's Weather and Climate Data for Benchmarking Simulations"	Degradation: Ali Shakiba, UNSW - "Regional Driving Factors of Degradation in Australian Residential Photovoltaic Systems: A Performance Loss Analysis"
	2.30 - 2.45	David Pham, Halocell Energy Ltd - "Enhanced Indoor Perovskite Solar Cell Performance via Additive Engineering"	General Discussion	Trevor Lee, Exemplary Energy - "Effect of Energy Efficiency Rating (EER) of Dwellings on Sale Prices in the ACT 1999-2024"	Degradation: Oliver Kunz, UNSW - "Quantifying Module Voltage Degradation via Daylight Photoluminescence Imaging"
	2.45 - 3.00	Laxmi Nakka, Nanyang Technological University - "Mitigation of PID in Perovskite Solar Cells using PEAI Passivation"		David Ferrari, MOMENT - "Characterising the Uncertainty of a Fixed COP Calculation"	
	3.00 - 3.30	Afternoon Tea			
	3.30 - 4.30	Concurrent Sessions KEY: *G = Nominated for a General Award (Wal Read or Muriel Watt Awards), *S = Nominated for a Stream Award			
		PV Devices Perovskite - Characterisation & Modelling Chairs: Arthur Julien Location: Mascot Ballroom BC	Solar Buildings & Solar Heating and Cooling Solar Neighborhoods and Buildings Chair: David Ferrari Location: Kingsford Room		
	3.30 - 3.45	Anh Bui, ANU - "Imaging efficiency of perovskite solar cells via voltage-dependent photoluminescence"	Zhengen Ren, CSIRO - "Solar housing in Australia under current and future changing climate"		
	3.45 - 4.00	Jie Zhao, Monash University - "Cation Optimization for bifacial surface passivation in efficient and stable perovskite solar cells"	Guy Pritchard, Solar Victoria (DEECA) - "Victoria's Solar for Apartments program is making it easier and cheaper for households to install rooftop solar PV"		
	4.00 - 4.15	Areebah Murad, CSIRO - "Modelling Perovskite Solar Cell Settling Time Using Ion Monger"	Yusen Zhao, RMIT University - "An integrated optimisation design framework for BIPV applications in non-residential buildings"		
	4.15 - 4.30	SPECIAL SESSION RACE for 2030: Jennly Gregory, Racefor2030 - "Innovative RACE for 2030 research projects in the built environment"			
	4.30 - 6.00	POSTER SESSION			
	5.00 - 6.00	Wine & Cheese Networking Session Highlighting ARENA TRAC		 Australian Government Australian Renewable Energy Agency	
	6.00 - 7.00	APVIAGM			

4-Dec WED	6:30am	APSRC Fun Run! (see APSRC website)			
	8.00am	Registration opens			
	9.00 – 10.30	DAY 2 Plenary Session Location: Mascot Ballroom, 1st Floor Chair: Rebecca Yang (RMIT)			
	9.00am	Leeanne Bond, HonFIEAust FTSE FAICD CEW CPEng EngExec, Breakthrough Energy Pty Ltd Presentation: "Accelerating renewable energy - deployment, grid integration and firming"			
	9.30am	Tiffany Crawford, Co-Director Climate Change and City Resilience and Co-Chief Heat Officer at the City of Melbourne Presentation: "Power Melbourne – exploring the role of storage in a 100% renewable energy city"			
	10.00am	Dr Katherine Woodthorpe AO FTSE FAICD, Cicadia Innovations Chair Presentation: "A bright future: How CSP is transitioning the grid and decarbonising hard-to-abate sectors"			
	10.30 – 11.00	Morning Tea			
	11.00 – 12.30	Industry Workshops			
		Space PV Chair: Gavin Conibeer Location: Botany Room	PV Forecasting and Firm Power Management Chair: Abhinil Prasad Location: Kingsford Room	PV Recycling/Circular Economy Chair: Rong Deng Location: Kurnell Room	Building Integrated PV Chair: Rebecca Yang Location: Centennial Room
		Panel Discussion - Anne Bettens, Deneb Space - Jay Manley, MP Space - Tim Parsons, Space Research Network - Peter Toth, Extraterrestrial Power - Aude Vignelles, Vignelles Space	Presentations - Remi Coni, Spark Renewables - Earl Duran, Diagno Energy Pty Ltd - Merlinde Kay, UNSW - Keith McIntosh, PV Lighthouse General discussion	Presentations - Darren Johannesen, Smart Energy Council – "Queensland Solar PV Stewardship Pilot - Early Learnings" - James McGregor, Blue Tribe – "Creating Value from Solar Panel Reuse" - Chitra Sulkan, Elecsome – "Unlocking the Potential of end-of-life solar panels: Transforming challenges into sustainable solutions" - James Petesic, PV Industries – "Innovative solar waste management and recycling solutions" - Megan Jones, Circular PV Alliance – "Certification as currency to drive circularity for solar energy" General Discussion	Presentations - Annu Anand, Hume Building Products – "BiPVs : Applying the 'Obvious'" - Iris Li, Yingli Solar - "Building Integrated PV in Green Building Application" - Ian Ellis and Enver Kolac, Metz – "Powering Innovation with BiPV " Case study: The Children's Hospital at Westmead Stage 2 Redevelopment Dragonfly car park" - Cameron McCleery, AGC – "Achieving ZEB Solutions with BiPV Worldwide" - Carlos Clement, Solar Energy Research Institute of Singapore - "BiPV in Singapore "Outlook and Innovations" General Discussion
	12.30 – 1.30	Lunch			
	1.30 – 3.00	Industry Workshops			
		PV Manufacturing Chair: Nathan Chang Location: Botany Room	Vehicle Integrated PV Chair: Jessica Yajie Jiang Location: Kingsford Room	Agri-PV Chair: Mahesh Suryawanshi Location: Kurnell Room	Carbon-free heat for industry Chair: Wil Gardner Location: Centennial Room
		Presentations - Dan Sturrock, ARENA - "Supporting Australian Manufacturing through Solar Sunshot" - Ashley Brinson, Private Energy Partners - "Silicon for the Solar Industry" - Vince Allen, Sundrive Solar "Applying Innovation in Australian Solar Manufacturing" - Richard Petterson, Tindo Solar - "Manufacturing in Australia" - Simeon Baker-Finch, 5B - "5B Manufacturing in Australia" Panel Discussion - with speakers	Presentations - Bonna Newman, CEO Lightyear - "How VIPV can accelerate the transition to New Energy Vehicles for everyone" - Yosoon Choi, Pukyong National University - "Optimizing Solar-Powered EV Parking: Integrating VIPV Technology for Maximum Efficiency" - Ivan Perez-Wurfl, UNSW - "The evolution of Sunswift, from aerodynamic wing to family car" General Discussion	Presentations - Liz Smith, Western Sydney University - "The scope and opportunity for Agrisolar in Australia: How can we shift toward farmer-first approaches to co-location?" - Stephen Todd, Voltfarmer – "The challenges and opportunities of stakeholder co-design in agri-solar projects" - Azam Eddo, CRS Pty Ltd - "Vertical AgriPV systems" - Ian Thomas, UNSW - "Progress in spectrally selective modulates for photovoltaics" - Gurleen Kaur, ISA India- "From Photons to Farms" - Tyler Lloyd, Midwest Agrivoltaic Systems - "Creating Space in Agrivoltaics" - Stephan Ong, Sunbiosys, Netherlands - "Fully Automated Agrivoltaics Systems" General Discussion	Presentations - Keith Lovegrove, ITP Thermal – "Australia's Industrial Process Heat Requirements – by key industry sector" - Dominic Zaal, CSIRO ASTRI – "Renewable Heat Technology Pathways for Industry" - Dougal Adamson, FPR Energy Ltd – "Commercialising particle-based CST for high temperature applications" - Keith Lovegrove, ITP Thermal – "Solar thermal for industrial process heat" - Peter Lemmich, Graphite Energy - "Electric Thermal Energy Storage (eTES) Implementation Lessons" - Paul Matuschka, Mars Petcare Australia – "Mars 100% renewable roadmap – our journey and strategy" General Discussion
	3.00 – 3.30	Afternoon Tea			
	3.30 – 5.00	Concurrent Sessions KEY: *G = Nominated for a General Award (Wal Read or Muriel Watt Awards), *S - Nominated for a Stream Award			
		PV Devices Thin Film & Emerging Technologies Chairs: Li Wang and Jiali Huang Location: Centennial Room	Renewable Energy Deployment & Integration Allsorts #1 Chair: Mike Roberts Location: Botany Room		
	3.30 - 3.45	Zihan Huang (*G) , Hong Kong University of Science and Technology - "Enhancing Efficiency through Band Alignment and Defect Manipulation in wide Eg CIGS2 Solar Cells via Double Temperature Zone Sulfurization"	INVITED SPEAKER: Baran Yildiz, UNSW - "Flexible demand of domestic electric water heating: case studies from real world trials"		
	3.45 - 4.00	Ao Wang , UNSW - "Cd-free high bandgap Cu2ZnSnS4 solar cells with 12.1% certified record efficiency"			
	4.00 - 4.15	Sandhuli Hettiarachchi , Macquarie University - "Synthesis of non-toxic AgInS2 quantum dots for luminescent solar concentrators"	Rob Passey , UNSW - "Temporal Analysis of Greenhouse Gas Emissions from Residential Electric Vehicle Charging"		
	4.15 - 4.30	Paul Shaw , UQ - "How the organic solar cell architecture can change the role of an acceptor to a FRET donor"	Elizabeth de Souza , ANU - "Community Energy Storage as a Strategy for Curtailment Reduction in Low Voltage Networks"		
	4.30 - 4.45	Shona McNab , UNSW - "Engineering Band Alignment for Efficient Triplet transfer in Singlet Fission Solar Cells"	Benjamin Hofmann (*G, *S) , ANU - "Including social resilience in grid modelling can improve the economic feasibility of regional micro-grids"		
	4.45 - 5.00	Jialin Cong , UNSW - "The role of Ge incorporation in pure sulfide CZTS revealed by advanced micro-to-atom scale characterizations"	Anna Nadolny , ANU - "Identification and evaluation of new transmission routes in Australia"		
	5.00 - 6.30	Pre-Dinner Drinks - Sponsored by Exemplary Energy in memory of John Ballinger, inaugural Chair of ANZSES, Chair in Architecture, UNSW, and a global leader in sustainable architectural design. Location: Pre-Function Area 1st Floor			
	6.30 - 9.00	Conference Dinner Location: Mascot Ballroom, 1st Floor			

5-Dec	8.00am	Registration opens		
THURS	9.00 – 10.30	Day 3 Plenary Session Location: Mascot Ballroom, 1st Floor Chair: Roger Dargaville (Monash)		
	9.00am	Bärbel Epp, Managing Director, Solrico Presentation: "International Developments in Solar Process Heat Markets"		
	9.30am	Michael Taylor, Head Renewable Energy Costs and Outlook, IRENA Presentation: "Solar is on the March: A decade of progress and potential"		
	10.00am	Dr. Ron Sinton, President and Senior Scientist, Sinton Instruments, Boulder, CO USA Presentation: "Advanced Characterization of Silicon Solar Cells at IV Test: Now and Future"		
	10.30 – 11.00	Morning Tea		
	11.00 – 12.30	Concurrent Sessions KEY: *G = Nominated for a General Award (Wal Read or Muriel Watt Awards), *S - Nominated for a Stream Award		
		PV Devices Silicon passivated contacts Chairs: Di Yan and Sisi Wang Location: Mascot Ballroom BC	Renewable Energy Deployment & Integration Performance & Modelling Chair: Baran Yildiz Location: Botany Room	
	11.00 - 11.15	Yanhao Wang, ANU - "Oxygen vacancy modulation of TiOx to improve hole-selective contacts for Si solar cells"	Grace Liu, UNSW - "Evaluating statistical degradation rate calculation methods using current-voltage measurements"	
	11.15 - 11.30	Yida Pan (*G,*S) , Melbourne University - "Ex-situ Doping of Polysilicon Hole Contacts for Silicon Solar Cells via Electron-Beam Boron Evaporation"	Abhnil Prasad, UNSW - "Development and application of virtual photovoltaic soiling sensors"	
	11.30 - 11.45	Yuhao Cheng, UNSW - "Screen-printed aluminium contact for the n-type passivated contact structure"	Sijin Wang (*S) , UNSW - "Applications of a machine learning model for real-time interpolated PVsyst simulations"	
	11.45 - 12.00	Daniel Macdonald, ANU - "The last defects industrial silicon wafers approaching the Auger limit"	Zeinab Haydous (*G) , UNSW - "Energy Yield vs. System Longevity: An Innovative Algorithm for Single-Axis Solar Trackers in a Curtailment-Prone Landscape"	
	12.00 - 12.15	Zhenyu Sun, UNSW - "Electron irradiation effect on ultra-thin silicon back contacted solar cells"	Keith McIntosh, PV Lighthouse - "Asymmetry in the energy yield forecasts for PV power plants"	
	12.15 - 12.30	Anh Huy Tuan Le, UNSW - "Impact of radiation exposure and operating temperature on the performance of ultra-thin silicon heterojunction solar cells"	Shukla Poddar, UNSW - "Modelling non-localised impacts of bushfires on solar power generation"	
	12.30 – 1.30	Lunch		
	1.30 – 3.00	Concurrent Sessions KEY: *G = Nominated for a General Award (Wal Read or Muriel Watt Awards), *S - Nominated for a Stream Award		
		PV Devices Silicon PV Sustainability & Reliability Chairs: Anyao Liu and Anh Le Location: Mascot Ballroom BC	Renewable Energy Deployment & Integration Allsort #2 Chair: Marnie Shaw Location: Botany Room	
	1.30 - 1.45	Brett Hallam, UNSW - "Ultra-Lean Silver Screen Printing for Sustainable Terawatt-Scale Photovoltaics"	INVITED SPEAKER: Jonathon Dore, AEMO - "AEMO's Engineering Roadmap to 100% Renewables"	
	1.45 - 2.00	Mohammad Dehghanimadvar, UNSW - "Assessing the Trade-Offs in Economic and Environmental Impacts for Global Glass and Aluminium Supply Opportunities"	Vikki McLeod, QUT - "Energy Policy for the integration of Distributed Energy Resource Integration: Using a Systems Thinking Approach"	
	2.00 - 2.15	Xinyuan Wu, UNSW - "Investigating Failure Roots in TOPCon Solar Cells via Accelerated Damp-Heat Testing"	Yingfei Huang, UNSW - "Optimising renewable energy generation in Australia based on climate change"	
	2.15 - 2.30	Chandany Sen, UNSW - "Hidden Fingerprints: How Solar Cell Handling Leads to Damp Heat Failures in HJT and TOPCon Modules"	Harrison Oates, Exemplary Energy - "Disaggregation of Daily Precipitation Data to Half-Hourly Data for Inclusion in Full Historical Weather Records 1990 to the Present"	
	2.30 - 2.45	Zubair Abdullah-Vetter (*G,*S) , UNSW - "An unsupervised learning approach to model potential induced degradation in photovoltaic modules"	Zahra Rahimpour, UNSW - "Integrating solar PV for water-efficient data centers in NSW: trends and opportunities"	
	2.45 - 3.00	Jiexi Fu, UNSW - "Assessing Soldering Flux-Induced Corrosion on TOPCon Solar Cells"		
	3.00 - 3.30	Afternoon Tea		
	3.30 – 5.00	Concurrent Sessions KEY: *G = Nominated for a General Award (Wal Read or Muriel Watt Awards), *S - Nominated for a Stream Award		
		PV Devices Tandem/multijunction solar cells Chairs: Anh Bui and Ryan Chang Sun Location: Mascot Ballroom BC	SPECIAL SESSION RACE for 2030 "101" Location: Kingsford Room	Renewable Energy Deployment & Integration Modelling tools - Assessment & Applications Chair: Anna Bruce Location: Botany Room
	3.30 - 3.45	INVITED SPEAKER Gianluca Coletti, Futurasun - "Transitioning to Back-Contact and Tandem PV Technologies"	Jenny Gregory & Tracey Colley "How to develop projects for RACE for 2030 CRC co-funding"	Nicholas Gorman, UNSW - "An open energy system knowledge infrastructure approach and the openISP project"
	3.45 - 4.00			Andrea Loli & Edoardo Santagata, Vanuatu DoE & UNSW - "Developing datasets for open-source energy modelling tools – the Energy Transition Model (ETM)"
	4.00 - 4.15	Yihui Hou, ANU - "Over 29%-efficient, stable n-i-p monolithic perovskite/silicon tandem solar cells based on double-sided poly-Si/SiO2 passivating contact silicon cells"		Ellie Kallmier, UNSW - "An open-source tool for PPA analysis"
	4.15 - 4.30	Guoliang Wang, Sydney University - "Reducing voltage loss via dipole tuning for electron transport in efficient and stable perovskite-silicon tandem solar cells"		Brendan Wright, UNSW - "Assessing the Practical Accuracy and Limitations of PVsyst Models for Assessment of Utility Photovoltaic Systems"
	4.30 - 4.45	Khoa Nguyen, ANU - "The role of luminescent coupling in monolithic perovskite/silicon tandem solar cells"		Iain MacGill, UNSW - "Clean energy transition planning frameworks for the Pacific - A Vanuatu Case study"
	4.45 - 5.00	Zhiwen Zheng, UNSW - "Outdoor photoluminescence imaging of III-V multijunction solar cells"		Harry Thawley, ANU - "Comprehensive Modelling to Generate Alternatives for Understanding High Solar Penetration Grids in Australia"
	5.00 - 5.30	Closing Ceremony/Award Presentations		
	5.30 - 7.00	Networking Drinks SPECIAL DEDICATION to the Late Dr. Steven Szokolay Sponsored by Exemplary Energy	Dr Steven Szokolay AM , a former UQ Head of School and a global leader in sustainable design, passed away in Brisbane on 8 June 2024, aged 96 years.	