





TUE	QCE24 Advance Program-at-a-Glance					IEEE Quantum Week 2024 featuring 450+ Hours of Exceptional Programming				
	Room	220C	517B	517A	517D	521AB	522AB	518ABC	519AB	520A
Style Capacity	Theater, Booths, Posters	Banquet 1200	Theater/Panel 1200	Theater/Panel 300	Theater/Panel 100	Theater/Panel 100	Theater/Panel 100	Class 120	Class 90	Class 57
8:00-9:30			KEY03 — Matthias Troyer, Microsoft							
9:30-10:00	Exhibits & Break									
10:00-11:30	BOF02 — QC IP Landscape: Huestis, Akhiezer; Foley Hoag		WKS18 — Apps Explored on H-Series Quantum HW	PAN04 — Microsoft & Quantinuum Built Most Reliable Logical Qubits	TUT09 — QubiC: OS Mid-Circ Measure & FeedFW Q Control	NET-TSTB: Hardware and Testbed	ALG-HSEC: Hamiltonian Simulation & Error Mitigation	WKS16 — Integrated Optics for QC & Emerging Apps	WKS15 — Industrial & Academic Engr. Challenges for Q.	
11:30-13:00	Posters & Break	Lunch								
13:00-14:30	Exhibit Theatre		WKS18 — Apps Explored on H-Series Quantum HW	PAN05 — Shaping Future: Canada's National Quantum	TUT09 — QubiC: OS Mid-Circ Measure & FeedFW Q Control	TUT15 — Quantum Internet: Wiring the Weirdness	TUT13 — Integrating GPUs & QPUs for QEC & Optimal Control	WKS16 — Integrated Optics for QC & Emerging Apps	WKS15 — Industrial & Academic Engr. Challenges for Q.	
14:30-15:00	Exhibits & Break									
15:00-16:30	Exhibit Theatre		WKS18 — Apps Explored on H-Series Quantum HW	PAN06 — ErrSupp. Mitigation & Correction: Quantum	BOF03 — Quantum Networks: Protocols: Nagayama, Van Meter	TUT15 — Quantum Internet: Wiring the Weirdness	TUT13 — Integrating GPUs & QPUs for QEC & Optimal Control	WKS16 — Integrated Optics for QC & Emerging Apps	WKS15 — Industrial & Academic Engr. Challenges for Q.	
16:30-17:00	Posters & Break									
17:00-18:30			KEY04 — Sergio Boixo, Google Quantum AI							
18:30-19:30				IEEE Sponsoring Societies Townhall						
TUE										Engage in QCE24 Networking Sessions Catalysts for Quantum Innovation & Collaboration

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	Room	520B	520C	520D	520E	520F	523AB	524A	524B	524C
Style Capacity	Class 57	Class 57	Class 57	Class 57	Class 57	Class 57	Theater 100	Theater 100	Theater 100	Theater 100
8:00-9:30	Keynote in 517A									
9:30-10:00	Break in 220C									
10:00-11:30	WKS17 — Quantum Algorithm Grand Challenge 2024	SYS-SIMU: Simulation	NET-SEC1: Quantum Secure Networks I	SYS-COFT: Fault-tolerant Compilation	ALG-EDMC: Quantum Error Detection, Mitigation, Correction	WKS14 — QC for Nat Sciences: Technol & Applications	NET-PFA1: Performance Analysis I	ALG-LALG: Quantum Linear Algebra	APP-PALG: Practical Quantum Algorithms	
11:30-13:00	Lunch in 517B									
13:00-14:30	WKS17 — Quantum Algorithm Grand Challenge 2024	TUT14 — Quantum Annealing: Emerging Explora for DB Opt	TUT16 — Compiling Resource-Effic Prog. with BQSKit	TUT17 — HW Design of Algo & EC Codes with Neutral Atoms	TUT18 — Parity Encoding as a Circuit Transpilation Tool	WKS14 — QC for Nat Sciences: Technol & Applications	NET-PFA2: Performance Analysis II	QML-KMOD: Quantum Kernel Models	APP-DANA: Application for Data Analysis	
14:30-15:00	Break in 220C									
15:00-16:30	WKS17 — Quantum Algorithm Grand Challenge 2024	TUT14 — Quantum Annealing: Emerging Explora for DB Opt	TUT16 — Compiling Resource-Effic Prog. with BQSKit	TUT17 — HW Design of Algo & EC Codes with Neutral Atoms	TUT18 — Parity Encoding as a Circuit Transpilation Tool	WKS14 — QC for Nat Sciences: Technol & Applications	NET-SEC2: Quantum Secure Networks II	QML-LMOD: Quantum Machine Learning Models	APP-QEDC: Quantum Error Detection & Correction	
16:30-17:00	Break in 220C									
17:00-18:30	Keynote in 517A									
18:30-19:30	IEEE Societies Townhall in 517D									
TUE										Engage in QCE24 Networking Sessions Catalysts for Quantum Innovation & Collaboration

WED	QCE24 Advance Program-at-a-Glance					IEEE Quantum Week 2024 featuring 450+ Hours of Exceptional Programming				
Room	220C	517B	517A	517D	521AB	522AB	518ABC	519AB	520A	
Style Capacity	Theater, Booths, Posters	Banquet 1200	Theater/Panel 1200	Theater/Panel 300	Theater/Panel 100	Theater/Panel 100	Class 120	Class 90	Class 57	
8:00-9:30			KEY05 — Margaret Martonosi, Princeton U							
9:30-10:00	Posters & Break									
10:00-11:30	Mentorship		WKS20 — Quantum Software Engineering and Technology	PAN07 — Powering Tomorrow: Quantum Apps for Energy	WKS24 — Integrating HPC with QC (WIHPQC 2024)	TEM-BNCH: TEM Benchmarking	WKS19 — Distributed Quantum Computing	WKS23 — Quantum Algorithms for Bio & Life Sciences	WKS21 — QC Opport in Renewable Energy & Climate Change	
11:30-13:00	Exhibits & Break	Lunch								
13:00-14:30	Career Fair		WKS20 — Quantum Software Engineering and Technology	PAN08 — Open Stack: Under the Hood of QC	WKS24 — Integrating HPC with QC (WIHPQC 2024)	WKS22 — Quantum Photonics: From Optical Table to Chip	WKS19 — Distributed Quantum Computing	WKS23 — Quantum Algorithms for Bio & Life Sciences	WKS21 — QC Opport in Renewable Energy & Climate Change	
14:30-15:00	Posters & Break									
15:00-16:30	Career Fair		WKS20 — Quantum Software Engineering and Technology	PAN09 — Challenges Towards Fault-Tolerant QC	WKS24 — Integrating HPC with QC (WIHPQC 2024)	WKS22 — Quantum Photonics: From Optical Table to Chip	WKS19 — Distributed Quantum Computing	WKS23 — Quantum Algorithms for Bio & Life Sciences	WKS21 — QC Opport in Renewable Energy & Climate Change	
16:30-17:00	Exhibits & Break									
17:00-18:30			KEY06 — Josh Izaac, Xanadu							
WED										Engage in QCE24 Networking Sessions Catalysts for Quantum Innovation & Collaboration

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Style Capacity	Class 57	Class 57	Class 57	Class 57	Class 57	Theater 100	Theater 100	Theater 100	Theater 100	
8:00-9:30	Keynote in 517A									
9:30-10:00	Break in 220C									
10:00-11:30	BOF04 — Quantum Quest: Governance Game: Morishita, et al.	NET-PFA3: Performance Analysis III	QML-ARCS: Quantum Architecture Search	SYS-PABS: Program Abstraction & Analysis	TEM-TOMO: Gates and Tomography	SYS-BNCH: SYS Benchmarking	SYS-QMAR: Qubit Mapping & Routing	WKS08 — Responsible Quantum Readiness	TEM-MLN1: Quantum ML & Neural Network Architectures - I	
11:30-13:00	Lunch in 517B									
13:00-14:30	TUT20 — Algorithms for Quantum Boltzmann Methods	TUT21 — The QUICK: Q Instrumentation Control Kit	TUT23 — ErrSupp: Unlock the Potential of Your Quantum App	TUT24 — Intro & App Quantum Simulation-Based Opt	APP-OPT1: Quantum Optimization I	TUT19 — Using Azure QDK for Q Algo Dev & Resource Est	QML-RLG1: Quantum Reinforcement Learning I	WKS08 — Responsible Quantum Readiness	TEM-MLN2: Quantum ML & Neural Network Architectures - II	
14:30-15:00	Break in 220C									
15:00-16:30	TUT20 — Algorithms for Quantum Boltzmann Methods	TUT21 — The QUICK: Q Instrumentation Control Kit	TUT23 — ErrSupp: Unlock the Potential of Your Quantum App	TUT24 — Intro & App Quantum Simulation-Based Opt	APP-OPT2: Quantum Optimization II	TUT19 — Using Azure QDK for Q Algo Dev & Resource Est	QML-RLG2: Quantum Reinforcement Learning II	WKS08 — Responsible Quantum Readiness	APP-BNCH: Benchmarking & Assessment	
16:30-17:00	Break in 220C									
17:00-18:30	Keynote in 517AA									
WED										Engage in QCE24 Networking Sessions Catalysts for Quantum Innovation & Collaboration

THU	QCE24 Advance Program-at-a-Glance					IEEE Quantum Week 2024 featuring 450+ Hours of Exceptional Programming				
Room	220C	517B	517A	517D	521AB	522AB	518ABC	519AB	520A	
Style Capacity	Theater, Booths, Posters	Banquet 1200	Theater/Panel 1200	Theater/Panel 300	Theater/Panel 100	Theater/Panel 100	Class 120	Class 90	Class 57	
8:00-9:30			KEY07 — Rajeeb Hazra, Quantinuum							
9:30-10:00	Exhibits & Break									
10:00-11:30	BOF05 — Navigating the QC Journey: Student to Prof		TUT27 — Intro to CUDA-Q and DQC — Part 1	PAN10 — Effective DEIA Requires Accountability	PAN13 — Testbeds: Practical Deploy of Quantum Networks	WKS25 — Quantum Resource Estimation	WKS27 — QC & Reinforcement Learning (QCRL-2024)	WKS26 — Quantum Algorithms for Comb Optimization	WKS29 — Current Progress & Challenges in Scaling Trapped-ion	
11:30-13:00	Posters & Break	Lunch								
13:00-14:30	Exhibit Theatre		TUT27 — Intro to CUDA-Q and DQC — Part 1	PAN11 — Entrepreneur & Intrapreneurship for Quantum Tech Dev	PAN12 — Quantum SW Stack: Technological Maturity Quest	WKS25 — Quantum Resource Estimation	WKS27 — QC & Reinforcement Learning (QCRL-2024)	WKS26 — Quantum Algorithms for Comb Optimization	WKS29 — Current Progress & Challenges in Scaling Trapped-ion	
14:30-15:00	Exhibits & Break									
15:00-16:30	Exhibit Theatre			BOF06 — IEEE QU-HPC WG: Hybrid Use Cases: Mete, Schulz, Pakin	SYS-ERRC: Error Correction	WKS25 — Quantum Resource Estimation	WKS27 — QC & Reinforcement Learning (QCRL-2024)	WKS26 — Quantum Algorithms for Comb Optimization	WKS29 — Current Progress & Challenges in Scaling Trapped-ion	
16:30-17:00	Exhibits & Posters Tear Down									
17:00-18:30			KEY08 — Kenneth Brown, Duke Univ							
18:30-20:30		QCE24 Banquet								
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Style Capacity	Class 57	Class 57	Class 57	Class 57	Class 57	Theater 100	Theater 100	Theater 100	Theater 100	
8:00-9:30	Keynote in 517A									
9:30-10:00	Break in 220C									
10:00-11:30	WKS30 — Quantum in Consumer Technology	APP-CHEM: Applications for Chemistry	QML-OPT1: Quantum Optimization I	APP-LERN: Quantum Computing and Learning	SYS-SECU: Security	WKS28 — Quantum Software 2.0: Enabling LC & Performant QC	APP-FINA: Applications for Finance	QML-QNN1: Quantum Neural Networks I	SYS-DQC: Distributed Quantum Computing	
11:30-13:00	Lunch in 517B									
13:00-14:30	WKS30 — Quantum in Consumer Technology	TUT28 — Transpilation of Utility-Scale Quantum Circuits	TUT29 — Can Cat Qubits Serve as Basis for FT QC?	TUT26 — Qiskit Machine Learning for Practical Apps	SYS-CITD: HW-Aware Compilation (Ion-Trap)	WKS28 — Quantum Software 2.0: Enabling LC & Performant QC	TUT25 — From Quantum in Pics to Interpretable QNLP	SYS-ANEL: Annealing	NET-DQC: Distributed Quantum Computing	
14:30-15:00	Break in 220C									
15:00-16:30	WKS30 — Quantum in Consumer Technology	TUT28 — Transpilation of Utility-Scale Quantum Circuits	TUT29 — Can Cat Qubits Serve as Basis for FT QC?	TUT26 — Qiskit Machine Learning for Practical Apps	QML-QNN2: Quantum Neural Networks II	WKS28 — Quantum Software 2.0: Enabling LC & Performant QC	TUT25 — From Quantum in Pics to Interpretable QNLP	APP-ANEL: Quantum Annealing	PHO-IOPT: Integrated Quantum Optics	
16:30-17:00										
17:00-18:30	Keynote in 517A									
18:30-20:30	Banquet in 517B									
THU										Engage in QCE24 Networking Sessions Catalysts for Quantum Innovation & Collaboration

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8:00-9:30			<a href="#">KEY09 — Eleanor Rieffel, NASA Ames</a>								
9:30-10:00		Break									
10:00-11:30			<a href="#">TUT34 — Intro to CUDA-Q and DQC — Part 2</a>	<a href="#">PAN16 — What are Quantum Gaps? Industry Perspective</a>	<a href="#">ALG-OCI1: Optimization of Quantum Circuits - I</a>	<a href="#">WKS31 — Quantum Algorithms for Financial Applications</a>	<a href="#">WKS34 — Chemical Applications of Quantum Computing</a>	<a href="#">WKS36 — Real-time Decoding &amp; Control of FT Systems</a>	<a href="#">WKS32 — Dependability Challenges in Hybrid C-</a>		
11:30-13:00		Lunch									
13:00-14:30			<a href="#">TUT34 — Intro to CUDA-Q and DQC — Part 2</a>	<a href="#">PAN15 — What does 'Break-Even' Mean?</a>	<a href="#">TUT31 — Qubits, Qudits &amp; Beyond: Expl. Multi-D QC</a>	<a href="#">WKS31 — Quantum Algorithms for Financial Applications</a>	<a href="#">WKS34 — Chemical Applications of Quantum Computing</a>	<a href="#">WKS36 — Real-time Decoding &amp; Control of FT Systems</a>	<a href="#">WKS32 — Dependability Challenges in Hybrid C-</a>		
14:30-15:00		Break									
15:00-16:30			<a href="#">SYS-AOPT: Application Optimization</a>		<a href="#">TUT31 — Qubits, Qudits &amp; Beyond: Expl. Multi-D QC</a>	<a href="#">WKS31 — Quantum Algorithms for Financial Applications</a>	<a href="#">WKS34 — Chemical Applications of Quantum Computing</a>	<a href="#">WKS36 — Real-time Decoding &amp; Control of FT Systems</a>	<a href="#">WKS32 — Dependability Challenges in Hybrid C-</a>		
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Style Capacity	Class 57	Class 57	Class 57	Class 57	Class 57	Class 57	Theater 100	Theater 100	Theater 100	Theater 100	
8:00-9:30	Keynote in 517A										
9:30-10:00	Break in 517B										
10:00-11:30	<a href="#">WKS33 — Apps of Optimal Control &amp; Calibration</a>	<a href="#">WKS35 — Academic &amp; Professional Training in QC: Open-source</a>	<a href="#">QML-OPT2: Quantum Optimization II</a>	<a href="#">APP-PSCI: Applications for Physical Sciences</a>	<a href="#">APP-QAOA: Application of QAOA</a>	<a href="#">APP-APPS: Quantum Applications</a>	<a href="#">TUT35 — Exper Ctrl with ARTIQ/ DAX Ecosystem</a>	<a href="#">TEM-CTRL: Quantum Controls</a>	<a href="#">PHO-QSAS: Photonic Quantum Sources &amp; Sensing</a>		
11:30-13:00	Lunch in 517B										
13:00-14:30	<a href="#">WKS33 — Apps of Optimal Control &amp; Calibration</a>	<a href="#">WKS35 — Academic &amp; Professional Training in QC: Open-source</a>	<a href="#">TUT30 — Err Mitigation for Tomorrow's QC Stack</a>	<a href="#">TUT32 — Quantum Tensor Networks in ML &amp; AI</a>	<a href="#">TUT33 — Quantum Error Mitigation at Utility Scales</a>	<a href="#">ALG-OCI2: Optimization of Quantum Circuits - II</a>	<a href="#">TUT35 — Exper Ctrl with ARTIQ/ DAX Ecosystem</a>	<a href="#">TEM-HW1: Quantum Hardware - I</a>	<a href="#">PHO-PCOM: Photonic Quantum Processing &amp; Communication</a>		
14:30-15:00	Break in 517B										
15:00-16:30	<a href="#">WKS33 — Apps of Optimal Control &amp; Calibration</a>	<a href="#">WKS35 — Academic &amp; Professional Training in QC: Open-source</a>	<a href="#">TUT30 — Err Mitigation for Tomorrow's QC Stack</a>	<a href="#">TUT32 — Quantum Tensor Networks in ML &amp; AI</a>	<a href="#">TUT33 — Quantum Error Mitigation at Utility Scales</a>	<a href="#">ALG-COPT: Quantum Combinatorial Optimization</a>		<a href="#">TEM-HW2: Quantum Hardware - II</a>	<a href="#">PHO-APPS: Quantum Photonics and Applications</a>		
16:30-17:00											
FRI											Engage in QCE24 Networking Sessions Catalysts for Quantum Innovation & Collaboration