

V80 — QCE20 — IEEE Quantum Week Advance Program — Friday, October 16, 2020

Mountain Time MDT (UTC-6)	Session Name	Session Type	Session Room	Monday Sessions
08:00–19:45	Fri-ONB-10	Onboard	Discover1	QCE20 Welcome, Onboarding & Quote of the Day
08:00–19:45	Fri-OVE-10	Onboard	Discover2	QCE20 Daily Sessions Overview & Announcements
08:30–10:00	Fri-KEY-11	Keynote	Eagle	<u>Announcements, Awards, Keynote</u> <u>Jake Taylor, NIST, QuICS, JQI, University of Maryland, USA</u> <u>Advances in Quantum Information Science</u> <u>Session Chair: Erik DeBenedictis, Zettaflops LLC</u>
10:00–10:45	Fri-KEY-12	Network	Eagle	<u>Hang out with Keynote Speaker Jake Taylor</u>
10:00–10:45	Fri-EIBM-12	Exhibit	IBM	<u>IBM Quantum — Scheduled Exhibits</u>
10:00–10:45	Fri-ENCS-12	Exhibit	NC-State	<u>NC State — Scheduled Exhibits</u>
10:00–10:45	Fri-EQDE-12	Exhibit	QDevil	<u>QDevil — Scheduled Exhibits</u>
10:00–10:45	Fri-POS-12	Posters	Bison	<u>Poster Session on Quantum Simulation 1 — Session Chair: Travis Humble, Oak Ridge National Laboratory (ORNL)</u> <u>Pos1: Megan Lilly and Travis Humble: Evaluating Performance of Quantum Computers with Cycle Benchmarking</u> <u>Pos2: Paul Kairys and Travis Humble: High performance digital quantum simulation through analog control optimization</u>
10:00–10:45	Fri-BOF-12	BoF	Hawk	<u>Open BoF Session</u>
10:00–10:45	Fri-NW1-12	Network	WiseOwl1	<u>Networking Session — Meet Quantum Newcomers</u>
10:00–10:45	Fri-NW2-12	Network	WiseOwl2	<u>Networking Session — Meet Quantum Enthusiasts</u>
10:00–10:45	Fri-COL-12	Break	Rockies	<u>Relax in Beautiful Colorado</u>
10:45–11:15	Fri-QBM1-13	Papers	Bighorn1	<u>Paper Session on Quantum Benchmarks and Measurements QBM1 — Session Chair: Catherine McGeoch, D-Wave Systems</u> <u>QBM1: Kathleen Hamilton, Tyler Kharazi, Titus Morris, Alex McCaskey, Ryan Bennink and Raphael Pooser, Oak Ridge National Laboratory. Scalable quantum processor noise characterization</u>
11:15–11:45	Fri-QBM1-13	Papers	Bighorn1	<u>QBM1: Sam Tomkins and Rogério de Sousa, University of Victoria. Noise mitigation with delay pulses in the IBM Quantum Experience</u>
10:45–12:15	Fri-TUT-13	Tutorial	Bear1	<u>Part 1: Cirq for NISQ: Research and Education—LaRose, Hoffman: Google AI Quantum</u> <u>Session Chair: Scott Koziol, Baylor University</u>
10:45–12:15	Fri-TUT-13	Tutorial	Bear2	<u>Part 1: Serious Games for Quantum Computing—Lahmann, Heider: IBM Germany</u> <u>Session Chair: Bruce Kraemer, IEEE Quantum Initiative</u>
10:45–12:15	Fri-TUT-13	Tutorial	Bear3	<u>Part 1: Exploring the D-Wave Webinar Series—Gottlieb, D-Wave Systems</u> <u>Session Chair: Catherine McGeoch, D-Wave Systems</u>
10:45–12:15	Fri-WKS-13	Workshop	Elk1	<u>Part 1: Technology Roadmapping for Quantum Computing—Holmes, DeBenedictis: IEEE IRDS</u> <u>Session Chair: Erik DeBenedictis, Zettaflops, LLC</u>
10:45–12:15	Fri-WKS-13	Workshop	Elk2	<u>Part 1: Control and Design of Superconducting Qubits—Bronn, Minev, Scholten: IBM Quantum</u> <u>Session Chair: Kristel Michielson, Forschungszentrum Jülich GmbH</u>
10:45–12:15	Fri-WKS-13	Workshop	Elk3	<u>Part 1: Quantum Computing Entrepreneurship—Chen, Sotelo, Monaco, Stauffer, Sumner: TEMS Society & IEEE</u> <u>Entrepreneurship</u> <u>Session Chair: Hausi Müller, University of Victoria</u>

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10:45–12:15	Fri-WKS-13	Workshop	Elk4	<u>Part 1: Quantum Simulation—Alexeev, Otten: Argonne National Laboratory; Mandrà, NASA Ames</u> <u>Session Chair: Ulrike Stege, University of Victoria</u>
10:45–12:15	Fri-WKS-13	Workshop	Elk5	<u>Part 1: Quantum Computing Opportunities in Renewable Energy—Eldredge: U.S. Department of Energy; Giani: GE Research</u> <u>Session Chair: Travis Humble, Oak Ridge National Laboratory (ORNL)</u>
12:15–13:00	Fri-EMIC-14	Exhibit	Microsoft	Microsoft Quantum — Scheduled Exhibits
12:15–13:00	Fri-EKEY-14	Exhibit	Keysight	Keysight — Scheduled Exhibits
12:15–13:00	Fri-POS-14	Posters	Bison	<u>Poster Session on Quantum Simulation 2 — Session Chair: Andreas Bergen, engageLively</u> <u>Pos1: Teik Guan Tan and Jianying Zhou: Quantum Interpreted Circuits (QuIC): Rapidly Simulating Quantum Algorithms</u> <u>Pos2: Andrea Delgado and Travis Humble: Quantum Algorithms for Event Reconstruction and Simulation in High Energy Physics</u> <u>Experiments</u>
12:15–13:00	Fri-BOF-14	BoF	Hawk	BoF: Quantum Science Centers, LANL, ORNL
12:15–13:00	Fri-NW1-14	Network	WiseOwl1	Networking Session — Meet Quantum Newcomers
12:15–13:00	Fri-NW2-14	Network	WiseOwl2	Networking Session — Meet Quantum Enthusiasts
12:15–13:00	Fri-COL-14	Break	Rockies	Relax in Beautiful Colorado — Hike the Rockies
13:00–13:30	Fri-QBM2-15	Papers	Bighorn1	<u>Paper Session on Quantum Benchmarks and Measurements QBM2 — Session Chair: Joseph Emerson, Quantum Benchmark & University of Waterloo</u> <u>QBM2: Tristan Zaborniak and Rogério de Sousa, University of Victoria. In situ noise characterization of the D-Wave quantum annealer</u>
13:30–14:00	Fri-QBM2-15	Papers	Bighorn1	<u>QBM2: Samudra Dasgupta and Travis Humble, Oak Ridge National Laboratory. Characterizing the Stability of NISQ Devices</u>
13:00–14:30	Fri-TUT-15	Tutorial	Bear1	<u>Part 2: Cirq for NISQ: Research and Education—LaRose, Hoffman: Google AI Quantum</u>
13:00–14:30	Fri-TUT-15	Tutorial	Bear2	<u>Part 2: Serious Games for Quantum Computing—Lahmann, Heider: IBM Germany</u>
13:00–14:30	Fri-TUT-15	Tutorial	Bear3	<u>Part 2: Exploring the D-Wave Webinar Series—Gottlieb, D-Wave Systems</u>
13:00–14:30	Fri-WKS-15	Workshop	Elk1	<u>Part 2: Technology Roadmapping for Quantum Computing—Holmes, DeBenedictis: IEEE IRDS</u>
13:00–14:30	Fri-WKS-15	Workshop	Elk2	<u>Part 2: Control and Design of Superconducting Qubits—Bronn, Minev, Scholten: IBM Quantum</u>
13:00–14:30	Fri-WKS-15	Workshop	Elk3	<u>Part 2: Quantum Computing Entrepreneurship—Chen, Wong, Sotelo: TEMS Society & IEEE Entrepreneurship</u>
13:00–14:30	Fri-WKS-15	Workshop	Elk4	<u>Part 2: Quantum Simulation—Alexeev, Otten: Argonne National Laboratory; Mandrà, NASA Ames</u>
13:00–14:30	Fri-WKS-15	Workshop	Elk5	<u>Part 2: Quantum Computing Opportunities in Renewable Energy—Eldredge: U.S. Department of Energy; Giani: GE Research</u>
14:30–15:15	Fri-EHWE-16	Exhibits	Honeywell	Honeywell Quantum Solutions — Scheduled Exhibits
14:30–15:15	Fri-EQUA-16	Exhibits	Quantropi	Quantropi — Scheduled Exhibits
14:30–15:15	Fri-POS-16	Posters	Bison	Open Posters
14:30–15:15	Fri-BOF-16	BoF	Hawk	Open BoF Session
14:30–15:15	Fri-NW1-16	Network	WiseOwl1	Networking Session — Meet Quantum Experts
14:30–15:15	Fri-NW2-16	Network	WiseOwl2	Networking Session — Meet Quantum Enthusiasts
14:30–15:15	Fri-COL-16	Break	Rockies	Relax in Beautiful Colorado — Ski the Rockies

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15:15–16:45	Fri-PAN-17	Panel	Moose	<u>Panel on Enabling and Growing the Quantum Industry</u> Organizers: Joe Broz, SRI International & QED-C and Celia Merzbacher, SRI International & QED-C; Moderator: Tom Ohki, Raytheon BBN; Panelists: Ricardo Borges, Synopsys; Ashley Huff, Janis Research Company; Ofer Naaman, Google; Chad Hoyt, Honeywell
15:15–16:45	Fri-TUT-17	Tutorial	Bear1	<u>Part 3: Cirq for NISQ: Research and Education—LaRose, Hoffman: Google AI Quantum</u>
15:15–16:45	Fri-TUT-17	Tutorial	Bear2	<u>Part 3: Serious Games for Quantum Computing—Lahmann, Heider: IBM Germany</u>
15:15–16:45	Fri-TUT-17	Tutorial	Bear3	<u>Part 3: Exploring the D-Wave Webinar Series—Gottlieb, D-Wave Systems</u>
15:15–16:45	Fri-WKS-17	Workshop	Elk1	<u>Part 3: Technology Roadmapping for Quantum Computing—Holmes, DeBenedictis: IEEE IRDS</u>
15:15–16:45	Fri-WKS-17	Workshop	Elk2	<u>Part 3: Control and Design of Superconducting Qubits—Bronn, Minev, Scholten: IBM Quantum</u>
15:15–16:45	Fri-WKS-17	Workshop	Elk3	<u>Part 3: Quantum Computing Entrepreneurship—Chen, Wong, Sotelo: TEMS Society & IEEE Entrepreneurship</u>
15:15–16:45	Fri-WKS-17	Workshop	Elk4	<u>Part 3: Quantum Simulation—Alexeev, Otten: Argonne National Laboratory; Mandrà, NASA Ames</u>
15:15–16:45	Fri-WKS-17	Workshop	Elk5	<u>Part 3: Quantum Computing Opportunities in Renewable Energy—Eldredge: U.S. Department of Energy; Giani: GE Research</u>
16:45–17:30	Fri-EXOP-18	Exhibits	Patrons	Open Exhibits
16:45–17:30	Fri-POS-18	Posters	Bison	Open Posters
16:45–17:30	Fri-BOF-18	BoF	Hawk	Open BoF Session
16:45–17:30	Fri-NW1-18	Network	WiseOwl1	Networking Session — Meet Quantum Experts
16:45–17:30	Fri-NW2-18	Network	WiseOwl2	Networking Session — Meet Quantum Enthusiasts
16:45–17:30	Fri-COL-18	Break	Rockies	Relax in Beautiful Colorado — Enjoy Nature
17:30–19:00	Fri-KEY-19	Keynote	Eagle	<u>Announcements, Awards</u> <u>Keynote: Alexander Condello, D-Wave Systems</u> <u>Practical Quantum Computing with D-Wave</u> Session Chair: Hausi Müller, University of Victoria
19:00–19:45	Fri-KEY-20	Network	Eagle	<u>Hang out with Keynote Speaker Alexander Condello</u>
19:00–19:45	Fri-EXOP-20	Exhibits	Patrons	Open Exhibits
19:00–19:45	Fri-POS-20	Posters	Bison	Open Posters
19:00–19:45	Fri-BOFO-20	BoF	Hawk	Open BoF Session
19:00–19:45	Fri-NW1-20	Network	WiseOwl1	Networking Session — Meet Quantum Experts
19:00–19:45	Fri-NW2-20	Network	WiseOwl2	Networking Session — Meet Quantum Enthusiasts
19:00–19:45	Fri-COL-20	Break	Rockies	Relax in Beautiful Colorado — Enjoy Nature