

The Quantum Internet Blueprint Workshop

February 05-06, 2020

Agenda

[SUNY Global Center](#)

116 East 55th Street

New York, NY

Phone: 212-317-3500

	Wednesday, February 05, 2020	
	Breakfast on own	
8:00am - 8:30am	Welcome and Charge from Department of Energy: <ul style="list-style-type: none">Paul Dabbar, <i>Under Secretary for Department of Energy, Office of Science</i>	General Session – Global Classroom (C Level)
8:30am - 10:00am	Introductory Talks <ul style="list-style-type: none">Overview of International Quantum Networking Efforts - Liang Jiang (University of Chicago)Overview of US Quantum Networking Efforts - Eden Figueroa (Stony Brook University / Brookhaven National Laboratory)Potential Quantum Networking Applications - Panagiotis Spentzouris (Fermilab)	General Session – Global Classroom (C Level)
10:00am - 10:20am	White House, Office of Science and Technology Policy perspective: <ul style="list-style-type: none">Quantum Information Science and the Technology Frontier - Jake Taylor, Assistant Director for Quantum Information Science, Office of Science and Technology Policy	General Session – Global Classroom (C Level)
10:20am - 10:30am	Workshop Agenda and Process: Workshop Committee	General Session – Global Classroom (C Level)
10:30am - 10:45am	Coffee Break	Global Classroom Foyer (C Level)
10:45am - 12:00pm	Parallel Breakouts Quantum Networking Hardware: <ul style="list-style-type: none">Base Quantum Networking Hardware (Leads: Nick Peters (ORNL), Kathy-Anne Soderberg (AFRL))Quantum Networking Control Hardware (Lead: David Awschalom (ANL), Thomas Schenkel (LBNL))Quantum Networking Protocols: (Leads: Liang Jiang (UChicago), Ray Newall (LANL))	Boardroom (Level 2) Multi-purpose Room (Level 2) Global Classroom (C Level)

12:00pm - 1:00pm	<p>Working Lunch</p> <ul style="list-style-type: none"> • Base Quantum Networking Hardware • Quantum Networking Control Hardware • Quantum Networking Protocols 	<p>Level 2 Foyer Level 2 Foyer Global Classroom Foyer– C level</p>
1:00pm - 2:00 pm	<p>Continued...Parallel Breakouts:</p> <p>Quantum Networking Hardware:</p> <ul style="list-style-type: none"> • Base Quantum Networking Hardware (Leads: Nick Peters (ORNL), Kathy-Anne Soderberg (AFRL)) • Quantum Networking Control Hardware (Lead: David Awschalom (ANL), Thomas Schenkel (LBNL)) • Quantum Networking Protocols: (Leads: Liang Jiang (UChicago), TBD) 	<p>Boardroom (Level 2) Multi-purpose Room (Level 2) Global Classroom (C Level)</p>
2:00pm - 3:00pm	<p>Report from Breakouts</p>	<p>General Session – Global Classroom (C Level)</p>
3:00pm - 3:15pm	<p>Coffee Break</p>	<p>Global Classroom Foyer (C Level)</p>
3:15pm - 5:30pm	<p>Quantum Internet Architecture (Leads: Eden Figueroa (Brookhaven/SBU), Panagiotis Spentzouris (Fermilab))</p> <ul style="list-style-type: none"> • Quantum Network Nodes • Quantum Repeater Nodes • Local Area Quantum Networks • Wide Area Quantum Networks • Quantum Network Operation and Control 	
5:30pm	<p>Adjourn</p>	

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	Thursday, February 06, 2020	
	Breakfast on own	
8:15am - 8:45am	Welcome Back and Charge for the Day: Workshop Committee	General Session – Global Classroom (C Level)
8:45am - 10:00pm	Building a Quantum Internet (Leads: Inder Monga (ESnet), Gabriella Carini (Brookhaven Lab), TBD) <ul style="list-style-type: none">• Phased Approach• Performance Characteristics	General Session – Global Classroom (C Level)
10:00am - 10:15am	Coffee Break <ul style="list-style-type: none">• Key Experiments, Milestones and Decision Points• Timeline and Resource Requirements• Impact on Classical Networking	Global Classroom Foyer (C Level)
12:00pm - 12:00pm	Continued...Building a Quantum Internet (Leads: Inder Monga (ESnet), Gabriella Carini (Brookhaven Lab), TBD)	General Session – Global Classroom (C Level)
12:00pm - 1:00pm	Closing Discussions and Next Steps: Workshop Committee	General Session – Global Classroom (C Level)
1:00pm	Adjourn - Lunch on own	