



## PROGRAM AT-A-GLANCE

### PRE-CONFERENCE DAY (TUESDAY, NOVEMBER 29)

PROGRAM TIME	BOOTCAMPS, WORKSHOPS & MEETINGS			
8:00 AM	REGISTRATION OPENS			
Morning	Quantum Economic Development Consortium (QED-C) 2022 Plenary (Members Only) (10:30 AM – 5:00 PM) (Offsite at Connected DMV's Rockville Offices)	<a href="#">International Forum: Advancing Global Strategic Partnerships</a> (9:00 AM – 12:00 PM) (Atrium Ballroom B)	Quantum Bootcamps: <a href="#">Quantum: From Foundation to Future</a> – Womanium (10:30 AM – 12:00 PM) (Hemisphere A)  <a href="#">Intro to Quantum Phenomena</a> – Qubitekk Entanglement Academy (9:00 AM – 1:00 PM) (Continental B)	
Afternoon		International Forum: Lunch & Networking (12:00 – 1:00 PM) (Atrium Ballroom B)	Quantum Bootcamps: <a href="#">Practical Quantum Computing</a> – UMD (1:00 – 4:00 PM) (Hemisphere B)	<a href="#">Quantum Startup Pitch Competition</a> (1:00 – 3:30 PM) (Atrium Hall)
		Quantum Industry Coalition (QIC) Annual Meeting (Members Only) (4:00 – 5:00 PM) (International Gateway)	<a href="#">Quantum Technologies for Decision-Makers</a> – EQUUS Australia (1:00 – 4:00 PM) (Hemisphere A)	Startup Networking (3:30 – 5:00 PM) (Atrium Hall)
Evening	<a href="#">Quantum in Your Classroom Bootcamp</a> (George Mason University & PQIC) (5:00 – 7:00 PM) (Atrium Ballroom A)			

### DAY 1 (WEDNESDAY, NOVEMBER 30) MORNING PLENARY (ATRIUM HALL)

PROGRAM TIME	PLENARY SESSIONS	
8:00 AM	REGISTRATION, BREAKFAST & NETWORKING	
8:45 – 9:00 AM	Conference Opening (Stu Solomon, President & CEO, Connected DMV)	
9:00 – 9:20 AM	Welcome to the Capital of Quantum (Dr. Darryll Pines, President, University of Maryland)	
9:25 – 9:55 AM	PLENARY	Exploring the Entanglement Frontier <ul style="list-style-type: none"> <li>Recorded Remarks: Nobel Laureates Dr. William Phillips, Joint Quantum Institute, and Dr. Alain Aspect, Institut d'Optique Graduate School – Université Paris-Saclay, École Polytechnique</li> <li>Live Remarks: Dr. Gerald Gilbert, MITRE Fellow, The MITRE Corporation</li> </ul>
10:00 – 10:10 AM		Quantum Startup Pitch Competition Award Ceremony (Presented by James Cook, Vice President, Strategic Engagement and Partnerships, The MITRE Corporation)
10:15 – 10:40 AM		The State of Quantum: Through the National Security Lens (Gil Herrera, Director of Research, National Security Agency)
10:45 – 11:10 AM		Australia: Quantum's Early Bird (Dr. Cathy Foley, Australia's Chief Scientist)
11:15 AM – 12:00 PM		The Future in Focus: Quantum Frontiers (Anne Neuberger, Deputy National Security Advisor for Cyber and Emerging Technology, National Security Council, The White House; Amy Liu, President, The Brookings Institution)

# DAY 1 (WEDNESDAY, NOVEMBER 30) AFTERNOON BREAKOUT SESSIONS

12:00-1:00 PM LUNCH & NETWORKING					
Breakout Tracks	Market Acceleration	Market Acceleration	Government & Security	Science & Engineering	Science & Engineering
Location	Atrium Hall	Atrium Ballroom A	Atrium Ballroom B	Hemisphere A	Hemisphere B
1:00 PM	<b>Industry-Led Quantum Innovation</b>	<b>Pathways &amp; Challenges to Commercialization of Quantum</b>	<b>Quantum &amp; Geopolitics</b>	<b>Quantum Computing: State of the Domain Keynote</b>	<b>Quantum Materials: State of the Domain Keynote</b>
1:05 PM	• Dr. Lara Jehi, Cleveland Clinic	• Dr. Andre Marshall, George Mason University (Moderator)	• Dr. Robert Atkinson, Information Technology and Innovation Foundation (ITIF)	• Dr. Jake Taylor, Riverlane; NIST / JQI	• Dr. Tyrel M. McQueen, Johns Hopkins University
1:10 PM	• George Thomas, Connected DMV / Potomac Quantum Innovation Center (PQIC)	• Raymond Cron, Stiftung Switzerland Innovation	• Dr. Arthur Herman, Hudson Institute		
1:15 PM		• Dr. James (Jim) Rabeau, CSIRO (Australia)			
1:20 PM					
1:25 PM					
1:30 PM					
1:35 PM	<b>Government's Role in Driving the Quantum Industry + "A Short Strange Story"</b>	<b>Legal Dimensions of Quantum</b>	<b>Quantum Ethics &amp; Policy Center: White Paper Release</b>	<b>Quantum Computing: State of the Domain Panel</b>	<b>Quantum Materials: State of the Domain Panel</b>
1:40 PM	• Whurley, Strangeworks	• Ryan McKenney, Orrick, Herrington, and Sutcliffe LLP (Moderator)	• Sarah Bauder, Connected DMV (Moderator)	• Dr. Luca Dellantonio, Institute for Quantum Computing, University of Waterloo (Moderator)	• Dr. Patrick Vora, Quantum Science and Engineering Center (QSEC), George Mason University (Moderator)
1:45 PM		• Robert Heverly, Albany Law School	• Dr. Lara Jehi, Cleveland Clinic	• Dr. Alex Keesling, CEO, QuEra	• Dr. Tomasz Durakiewicz, Division of Materials Research, National Science Foundation
1:50 PM		• Kaniah Konkoly-Thege, Quantinium	• Dr. Jesse Kirkpatrick, Institute for Philosophy and Public Policy, George Mason University	• Dr. Randy Kuang, Quantropi, Inc.	• Dr. Joseph Hagmann, The MITRE Corporation
1:55 PM	<b>The State of the Quantum Supply Chain</b>		• Lindsay Rand, Center for International and Security Studies, University of Maryland	• Dr. Pekka Pursula, VTT Technical Research Centre of Finland	• Dr. Johnpierre Paglione, Quantum Materials Center, University of Maryland
2:00 PM	• Dr. Celia Merzbacher, QED-C (Moderator)				
2:05 PM	• Dr. Anjul Loiacono, ColdQuanta				
2:10 PM	• Dr. Kristen Pruden, Atom Computing				
2:15 PM					
2:20 PM		<b>Perspectives on Quantum Workforce Development</b>			
2:25 PM	<b>Advancing the Quantum Advantage: Industry Perspectives</b>	• Doug Finke, Quantum Computing Report (Emcee)			
2:30 PM	• Dr. Arthur Herman, Hudson Institute (Moderator)	• Dr. Russell Ceballos, Chicago Quantum Exchange			
2:35 PM	• Dr. Nathan Bishop, Intel	• Dr. Emily Edwards, Illinois Quantum Information Science and Technology Center (IQUIST), University of Illinois Urbana-Champaign; National Q-12 Education Partnership			
2:40 PM	• Alexander Condello, D-Wave Quantum Inc.	• Mark Hannum, American Association of Physics Teachers; Thomas Jefferson High School for Science and Technology	<b>National Quantum Programs</b>	<b>Quantum Sensing: State of the Domain Keynote</b>	<b>Quantum Communications: State of the Domain Keynote</b>
2:45 PM	• Dr. Chris Monroe, IonQ	• Susan Schwamberger, Quantinium	• Hodan Omaar, Information Technology and Innovation Foundation (ITIF) (Emcee)	• Dr. Jay Lowell, Boeing Disruptive Computing & Networks	• Dr. Nicholas A. Peters, Oak Ridge National Laboratory
2:50 PM		• Donn Silberman, The Optics Institute of Southern California	• <b>Australia:</b> Dr. James (Jim) Rabeau, Commonwealth Scientific and Industrial Research Organization (CSIRO)		
2:55 PM		• Dr. Corey Stambaugh, Office of Science & Technology Policy (OSTP), The White House	• <b>Canada:</b> Dr. Rajat Ghosh, National Quantum Strategy Secretariat (ISED)		
3:00 PM		• Valerie Vasquez, SandboxAQ	• <b>Finland:</b> Dr. Pekka Pursula, VTT Technical Research Centre	<b>Quantum Sensing: State of the Domain Panel</b>	<b>Quantum Communications: State of the Domain Panel</b>
3:05 PM			• <b>France:</b> Dr. Neil Abroug, General Secretariat for Investment	• Dr. Bonnie Marlow, The MITRE Corporation (Moderator)	• Dr. Jim Ricotta, Aliro Quantum Technologies (Moderator)
3:10 PM	<b>Sustaining Investment &amp; Preventing a Quantum Winter</b>		• <b>Germany:</b> Dr. Fabian Lausen, Federal Ministry of Education and Research	• Dr. Bruno Huttner, ID Quantique SA	• Dr. Noel Goddard Qunnect
3:15 PM	• Dr. David Dorsey, 11.2 Capital (Moderator)		• <b>Japan:</b> Dr. Masahiro Horibe, Secretariat of Science, Technology and Innovation Policy, Cabinet Office	• Dr. Ron Walsworth, Quantum Catalyzer (Q-CAT)	• Dr. Simon Patkovic, ID Quantique SA
3:20 PM	• Dr. Esube Bekele, In-Q-Tel		• <b>South Korea:</b> Dr. Yoonchae Cheong, Korea-US Quantum Technology Cooperation Center		• John Prisco, Safe Quantum Inc.
3:25 PM	• Nicole Conner, Airbus Ventures		• <b>Sweden:</b> Dr. Maria Brogren, Embassy of Sweden in Washington D.C.		
3:30 PM	• Dr. Christophe Jurczak, Quantonation		• <b>Switzerland:</b> Dr. Brendan Karch, Swissnex in Boston and New York		
3:35 PM		<b>QISE in K-14</b>	• <b>USA:</b> Dr. Charles Tahan, Office of Science & Technology Policy (OSTP), The White House	<b>Cross-Industry Perspective: Quantum Computing Use Cases</b>	<b>Cross-Domain Perspective: Life Sciences &amp; Healthcare Use Cases</b>
3:40 PM		• Dr. Jessica Rosenberg, George Mason University (Moderator)		• Carl Dukatz, Accenture (Moderator)	• Dr. Ruoyi Zhou, Cleveland Clinic-IBM Partnership, Cleveland Clinic (Moderator)
3:45 PM	<b>Preparing for Quantum: A Community Effort (Tennessee)</b>	• Dr. Emily Edwards, IQUIST, UI Urbana-Champaign; National Q-12 Education Partnership		• Dr. Matt Langione, Boston Consulting Group	• Dr. Wolfgang Losert, University of Maryland
3:50 PM	• Hon. Tim Kelly, City of Chattanooga, TN (Moderator)	• Alexandra Fuentes, Fairfax County Public Schools		• Dr. Jay Lowell, Boeing Disruptive Computing & Networks	• Dr. Lene Oddershede, Novo Nordisk Foundation
3:55 PM	• Dr. Steven R. Angle, University of Tennessee at Chattanooga	• Dr. Marilyn Hamilton, The University of the District of Columbia Community College		• Dr. Marco Pistoia, JPMorgan Chase & Co.	• (Startup Pitch Competition Winner - TBD)
4:00 PM	• Hon. Bob Corker, Former U.S. Senator				
4:05 PM	• Dr. Duncan Earl, Qubitekk				
4:10 PM	• David Wade, Chattanooga EPB				
4:15 PM					
4:20 PM					
4:25 PM					
4:30 PM	<b>Building for Success in an Evolving Ecosystem: Industry Perspectives</b>				
4:35 PM	• André M. König, OneQuantum (Moderator)				
4:40 PM	• Scott Faris, ColdQuanta				
4:45 PM	• Dr. Christopher Savoie, Zapata Computing				
4:50 PM	• Tony Uttley, Quantinium				
4:55 PM					
5:00 PM					
<b>END OF DAY 1 SESSIONS</b>					
6:00 - 9:00 PM <i>Invitation-Only International Delegation Dinner (off-site)</i>					

EXHIBIT HALL &amp; EDUCATIONAL SHOWCASES

## DAY 2 (THURSDAY, DECEMBER 1) MORNING PLENARY (ATRIUM HALL)

PROGRAM TIME	PLENARY SESSIONS	
8:00 AM	REGISTRATION, BREAKFAST & NETWORKING	
8:45 – 9:00 AM	PLENARY	<i>Day 2 Kickoff</i> (Stu Solomon, President & CEO, Connected DMV)
9:00 – 9:55 AM		<i>Quantum Innovation Ecosystems &amp; Collaboration</i> (Dr. Celia Merzbacher, QED-C; Dr. Laurie Locascio, National Institute of Standards and Technology (NIST); Dr. Lene Oddershede, Novo Nordisk Foundation; Dr. Geneviève Tanguay, National Research Council of Canada)
10:00 – 10:20 AM		<i>National Quantum Initiative (NQI): Driving Commercialization</i> (Dr. Chris Monroe, IonQ)
10:25 – 10:40 AM		<i>Charting a Continuous Path to Quantum Advantage</i> (Dr. Jay Gambetta, IBM)
10:45 – 11:00 AM		<i>French Quantum Update</i> (French Official)
11:05 – 11:45 AM		<i>Building Ecosystems to Accelerate Quantum's Path to Value</i> (Dr. David Awschalom, Chicago Quantum Exchange; George Thomas, Connected DMV / PQIC; Dr. Andrew White, EQUUS Australia; Brendan Bordelon, Politico)
11:50 AM–12:00 PM		<i>Maryland: Preparing for Quantum</i> (Hon. Larry Hogan, State of Maryland)
12:00 – 1:00 PM	LUNCH & NETWORKING	

EXHIBIT HALL & SHOWCASES

## DAY 2 (THURSDAY, DECEMBER 1) AFTERNOON BREAKOUT SESSIONS

12:00-1:00 PM	LUNCH & NETWORKING				
Breakout Tracks	Market Acceleration	Market Acceleration	Government & Security	Science & Engineering	Science & Engineering
Location	Atrium Hall	Atrium Ballroom A	Atrium Ballroom B	Hemisphere A	Hemisphere B
1:00 PM	<b>U.S. Government Investment Priorities</b>	<b>Building Successful Quantum Startups</b>	<b>Quantum Cryptography: Defending the Future</b>	<b>Quantum Computing and Communications Roadmap to Value Workshops</b>	<b>Quantum Sensing and Materials Roadmap to Value Workshops</b>
1:05 PM	• Dr. Jonathan Felbinger, Quantum Economic Development Consortium (QED-C) (Moderator)	• Amanda Stein, Quantum Catalyzer (Q-CAT) (Moderator)	• Jamil Jaffer, National Security Institute, George Mason University (Moderator)	• John Yesawich, Connected DMV (emcee)	• Dr. Patrick Vora, Quantum Science and Engineering Center (QSEC), George Mason University (emcee)
1:10 PM	• Dr. Gerald Borsuk, Naval Research Laboratory (NRL)	• Piotr Kulczakowicz, Quantum Startup Foundry / University of Maryland	• Dr. Bruno Huttner, ID Quantique SA	• Paulina Mazurek, BEIT Inc. (Computing Workshop Facilitator)	• Dr. Max Perez, ColdQuanta (Sensing Workshop Facilitator)
1:15 PM	• Dr. Fredrik Fatemi, Army Research Laboratory (ARL)	• Dr. Daniel Sachs, Polsky Center for Entrepreneurship and Innovation, The University of Chicago	• Denis Mandich, Qrypt	• Simon Patkovic, ID Quantique SA (Communications Workshop Facilitator)	• Dr. Marlou Slot, National Institute of Standards and Technology (NIST) (Materials Workshop Facilitator)
1:20 PM	• Dr. Michael Hayduk, Air Force Research Laboratory (AFRL)		• Dr. Michele Mosca, evolutionQ Inc.		
1:25 PM	• Rima Oueid, U.S. Department of Energy		• Michael Redding, Quantropi Inc.		
1:30 PM					
1:35 PM					
1:40 PM					
1:45 PM		<b>Export Controls: Impact &amp; Implications for Quantum</b>	<b>DC-QNet: Developing a Quantum Network Infrastructure</b>		
1:50 PM		• Kevin Wolf, Akin Gump Strauss Hauer & Feld LLP	• La Vida Cooper, DC-Qnet; NASA Goddard Space Flight Center		
1:55 PM	<b>The State of Quantum: Science &amp; Research</b>	<b>Building a Diverse &amp; Inclusive Quantum Ecosystem</b>	<b>Quantum as an Engine for Economic Growth</b>		
2:00 PM	• Denise Caldwell, National Science Foundation (NSF)	• Dr. Falecia Williams, Prince George's Community College (Moderator)	• Dr. John Paul Sawyer, Mid-Atlantic Quantum Alliance; University of Maryland (Moderator)		
2:05 PM		• Dr. Kevin Peters, National Quantum Literacy Network	• Stephen Auvil, Maryland Technology Development Corporation (TEDCO)		
2:10 PM		• Denise Ruffner, Women in Quantum	• Dr. Dean Chang, University of Maryland		
2:15 PM	<b>The Future of Quantum-Enabled Financial Services</b>	• Connor Teague, Quantum Futures	• Dr. James G. Kushmerick, NIST		
2:20 PM	• Dr. Marco Pistoia, JPMorgan Chase & Co.	• Prachi Vakharia, Womanium	• Thom Martin, FedTech		
2:25 PM			• Dr. Yaakov Weinstein, The MITRE Corporation		
2:30 PM					
2:35 PM	<b>The Exponential Power of AI + Quantum</b>				
2:40 PM	• Jack Hidary, SandboxAQ				
2:45 PM					
2:50 PM					
2:55 PM	<b>Is the Quantum Industry at an Inflection Point?</b>	<b>Preparing for Quantum: Alternative Pathways &amp; Lifelong Learning</b>	<b>Policy &amp; Regulations: Industry Perspectives</b>		
3:00 PM	• Dr. Bob Sutor, ColdQuanta	• Maria Flynn, Jobs for the Future	• Paul Stimers, Quantum Industry Coalition (Moderator)		
3:05 PM		• Dr. Peter Turner, Sydney Quantum Academy	• Allison Schwartz, D-Wave Quantum Inc.		
3:10 PM			• Lamont Silves, IonQ		
3:15 PM	<b>Silicon Photonic Quantum Computing</b>		• Dr. Kate Weber, Google		
3:20 PM	• Dr. Pete Shadbolt, PsiQuantum				
3:25 PM					
3:30 – 5:30 PM	CLOSING & NETWORKING RECEPTION (CO-SPONSORED BY THE GOVERNMENT OF FRANCE)				

EXHIBIT HALL & EDUCATIONAL SHOWCASES