

# National Quantum Literacy Conference 1.0

Day 1: Wednesday, October 5, 2022

## National Security, Defense and DEI

9:00 - 9:30 AM

Registration & Continental Breakfast (Until 9:00 am)  
Welcome and Greetings: **VADM Sean Buck, USNA**  
Conference Emcees: **Russell Ceballos & Willie Larkin**

9:30 – 10:00 AM Welcome and Purpose

Keynote Welcome Comments:

Introductions: **Kevin Peters**

- Deloitte Consulting, LLP - **Scott Buchholz**
- Strangeworks - **Will Hurley**
- IBM Quantum - **Charles Robinson**

10:00– 10:45 AM Morning Keynote Speaker

*Why Quantum Literacy Matters in the 2nd Quantum Revolution: Econ. Dev., Educ., and the National Security Imperatives*

- Introduce: **Charles Robinson, IBM Quantum**
- Keynote Speaker: **Mark Ritter, IBM**

10:45 – 11:00 AM BREAK

11:00– 11:45 AM Plenary Panel Discussion

*Quantum Literacy & Military: Air Force, Navy, Army*  
Moderator: **Capt. Debora Nelson, ROTC MSU Mil. Sci.**  
Panelist A **Gen. Kip Ward, Army (Ret)**  
Panelist B **Gen. John Wharton, Army (Ret), Global Connectivity Center (GCC)**  
Panelist C **Dr. Gamani Karunasiri, Naval Postgraduate School**

11:45– 12:15 PM Plenary Panel Discussion

*Quantum's Promise: Why Quantum Technologies are Important to National Security*  
Moderator: **Randi Hunley, Deloitte Services LP**  
Panelist A **Troy LeMaile-Stovall, TEDCO**  
Panelist B **Timothy Akers, NQLN, MSU**  
Panelist C **Denise Baken, Shield Analysis Technology**  
Panelist D **Manuel Trujillo, Swain Techs**

12:15 – 12:45 PM Box Lunch & Keynote Speaker

*Quantum Literacy as a National Security Imperative: Quantum Computing*  
Speaker: **Deloitte Consulting LLP, IBM Quantum**

1:00– 1:45 PM Breakout Sessions

Session A: *Teaching Quantum Literacy to Non-Physicists*

**Jim Freericks, Georgetown U.**  
**Chandralekha Singh, UPitt**

Session B: *Quantum Applications: Computing, Sensors, and Communication (Interdisciplinary)*

**Charles Robinson, IBM Quantum**  
**Abed Almala, UDC**

Session C: *Quantum Literacy and DOD (ROTC I)*

**Denise Baken, Shield Analysis Technology**  
**Lt. Col. Malika Morgan, Undersec. Army**

Session D: *Quantum Literacy Computing and Industry*

**Luke Mauritsen, Montana Instruments**  
**William Hervey, Middle GA State Univ.**

College Session: *Designed for College Students*  
**Michael Vitz, Deloitte Consulting LLP**  
**Strangeworks, UDC**

2:00 – 2:30 PM Plenary Panel Discussion

*Future of Quantum: Federal Funding and Contracting*

Moderator: **Lily Milliner, Build It Up**  
Panelist A **Howard Byrd, Deloitte Services LP**  
Panelist B **Therese Meers, Acting Gen. Counsel SBA**  
Panelist C **Scott Buchholz, Deloitte**

2:30 – 3:00 PM Plenary Panel Discussion

*Quantum Literacy in National Laboratories*

Moderator: **Russell Ceballos, CQE**  
Panelist A **Chandralekha Singh, UPitt**  
Panelist B **Tomasz Durakiewicz, NSF**

3:00 – 3:15 PM BREAK

4:00 – 4:15 PM Closing Comments

*Why does DEI Matter in Quantum Literacy?*

- **Timothy Akers, NQLN, MSU**
- **Kevin Peters, NQLN, MSU**

4:15- 5:00 PM Networking

# National Quantum Literacy Conference 1.0

Day 2: Thursday, October 6, 2022

## Quantum Computing, Supply Chain & Workforce Development

9:00 - 9:30 AM

Registration & Continental Breakfast  
Keynote Speaker: TBA

9:30 – 9:45 AM Fireside Recap

Keynote Opening: Randi Hunley, Alan Andress,  
Kevin Peters

9:45– 10:30 AM Morning Keynote Speakers

*Quantum Literacy & Artificial Intelligence: Women in Q-STEM*

Introduction: Randi Hunley, Deloitte Services LP  
Moderator: Teanna Jones, Amazon  
Panelist A Vinita Fordham, Deloitte Consulting LLP  
Panelist B Chandralekha Singh, Univ. of Pitt.

10:30 – 10:45 AM BREAK

10:45– 11:30 AM Plenary Panel Discussion

*Building the Quantum Computer & Supply Chain*  
Introduction: Phil Meers  
Moderator: Alan Andress, Deloitte Consulting LLP  
Panelist A Paul Wang, MSU  
Panelist B Eduardo Mucciolo, Univ. Central Florida  
Panelist C Luke Mauritsen, Montana Instruments

11:30– 12:00 PM Plenary Panel Discussion

*Public Policy for Education and Government in the Quantum Literacy Age*  
Introduction: Michelle Higgins, Univ of Arizona  
Moderator: Celia Merzbacher, QED-C  
Panelist A Kevin Peters, MSU  
Panelist B John Rosenthal, TCRDF  
Panelist C Idalia Friedson, Rigetti

12:00 – 12:45 PM Box Lunch & Keynote Speaker

*Quantum Literacy Education for Workforce Development*

Speaker: Victor McCrary, UDC  
Charles Tahan, Asst Director for QIS,  
Director of NQCO (White House)

1:00– 1:45 PM Breakout Session

Session A: *Minority Business Enterprises in Building a Quantum Workforce I*

Lily Milliner, Build It Up  
Stanley Tucker, Meridian Mgmt. Group

Session B: *Quantum Literacy: Cyber Encryption Security*  
Kelly Miller Smith, Deloitte & Touche LLP  
Ryan Kaiser, Deloitte & Touche LLP

Session C: *Quantum Literacy in Warfare*

Gen. Kip Ward, Army (Ret)  
Gen. John Wharton, Army (Ret), GCC

Session D: *Quantum Literacy and Supply Chain Challenges*

Luke Mauritsen, Montana Instruments

College Session: Designed for College Students

Michael Vitz, Deloitte Consulting LLP  
Strangeworks, UDC

2:00– 2:45 PM Breakout Session

Session A: *Quantum Literacy and the Impact on Minority Business Enterprises II*

DeAndre Wells, AGX (Army, Ret)  
Manuel Trujillo, Swain Techs  
Suresh Nair, INA Solutions

Session B: *Quantum Literacy: A Shift in STEM Education for HBCUs, MSIs and Community Colleges*

Marilyn Hamilton, UDC  
Randi Hunley, Deloitte Services LP  
Kevin Peters, NQLN, MSU

Session C: *Quantum Literacy Training for DOD (ROTC II)*

Charles Clark, NIST, JQI, UMD  
Capt. Debora Nelson, ROTC MSU Mil. Sci.

Session D: *Quantum Information Science*

Alan Andress, Deloitte Consulting LLP  
Suhare Nur, IBM Quantum

2:45 – 3:00 PM BREAK

3:00 – 3:45 PM Plenary Panel Discussion

*Government's Role in Securing the Quantum Supply Chain*

Moderator: Therese Meers, Acting Gen. Counsel SBA  
Panelist A Col. Lee Dunlap, Army (Ret), GCC  
Panelist B Sanjay Bapna, MSU  
Panelist C Luke Mauritsen, Montana Instruments

3:45 – 4:00 PM CALL TO ACTION

4:00 - 5:00 Networking