Quantum Information Science (QIS) Kick Off Principal Investigators' Meeting
Bethesda North Marriott Hotel & Conference Center
January 31-February 1, 2019

Thursday, January 31, 2019

7:45 – 8:45 AM **Registration/Breakfast**

Opening Plenary Session – Salon E

8:45 – 9:00 AM *DOE Welcome- Office of Science Associate Directors*
Barbara Helland, ASCR
Harriet Kung, BES
Jim Siegrist, HEP

9:00 – 9:30 AM *Interagency QIS Activities*
Jake Taylor, Office of Science and Technology Policy

9:30 – 10:15 AM *Office of Science QIS Activities and Panel Discussion*
Barbara Helland, ASCR
Harriet Kung, BES
Sharlene Weatherwax, BER
James Van Dam, FES
Jim Siegrist, HEP
Tim Hallman, NP

10:15 – 10:45 AM **Break**

10:45 – 11:20 AM *Opportunities at the entanglement frontier*
John Preskill, Caltech

11:20 – 11:55 AM *Superconducting Quantum Circuits: Balancing Art and Architecture*
Irfan Siddiqi, Lawrence Berkeley National Laboratory

11:55 – 12:30 PM *Driving quantum science and technology with semiconductors*
David Awschalom, Argonne National Laboratory/University of Chicago

12:30 – 1:30 PM **Working Lunch (Posters will need to be hung during this time)**

1:30 – 1:45 PM Small Business Innovation Research (SBIR) Opportunities in QIS
Manny Oliver, Director, SBIR/STTR Programs Office

1:45 – 5:00 PM Poster Session (PIs at their posters on a rotating basis) – **Salon H**

Refreshments available at 3:00

5:00 – 6:00 PM Lightning Round of Quantum Center Pitches

Dinner (on your own)

(Friday Agenda on Back)

Friday, February 1, 2019

7:30 – 8:30 AM **Breakfast**

8:30 – 8:45 AM Plenary Session (present plans for the day) – **Salon E**

8:45 - 10:00 AM Topical Breakouts (Topics 1A-1D)

1a. Quantum computing for application-specific research: Machine learning, data analysis, and related topics – **Salon F**
1b. Foundational quantum physics and information theory – **Salon G**
1c. Quantum qubits and computing platforms – **White Oak**
1d. Advanced synthesis and characterization tools (including validation) – **Salon H**

10:00 – 10:45 AM Break

10:45 – 12:00 PM Topical Breakouts (Topics 2A-2D)

2a. Computer science and applied math challenges for quantum computing – **Salon F**
2b. Quantum sensors and detectors – **White Oak**
2c. Quantum computing for application-specific research: Chemistry, materials, variational techniques, field theories – **Salon G**
2d. Analog simulations and quantum simulation experiments – **Salon H**

12:00 – 1:30PM Working Lunch

1:30 – 3:30 PM Office Breakouts

Advanced Scientific Computing Research – **Salon F**
Basic Energy Sciences – **Salon G**
High Energy Physics – **Salon H**
Fusion Energy Sciences/Nuclear Physics – **Salon E**

3:30 PM Meeting Concludes