

AGENDA

Fossil Energy Workshop on Quantum Information Science & Technology November 19-20, 2019 NETL-Pittsburgh Building 922 Room 106AB

Tuesday, November 19, 2019

8:00 – 8:30 a.m.	Check-in/Breakfast
8:30 – 9:00 a.m.	Welcome/Introduction <i>Brian Anderson (NETL)</i> <i>Madhava (Syam) Syamlal (NETL)</i> <i>Jeremy Levy (U. of Pittsburgh/PQI)</i>
9:00 – 9:30 a.m.	DOE Program in Quantum Information Science <i>Barbara Helland (U.S. Department of Energy)</i>
9:30 – 10:00 a.m.	Keynote, Fossil Energy <i>Charles McConnell (U. of Houston)</i>
10:00 – 10:15 a.m.	BREAK
10:15 – 10:45 a.m.	Keynote, Quantum Information Science <i>Celia Merzbacher (Quantum Economic Development Consortium)</i>
10:45 – 12:15 p.m.	Panel 1 – Quantum Sensors/Detectors and Quantum Experiments Panel Moderator: <i>Randy Gentry (NETL)</i> Panel Members: <i>Chethan Acharya (Southern Company)</i> , <i>Henry Du (Stevens Institute of Technology)</i> , <i>Carl Williams (NIST)</i> , <i>Benjamin Lawrie (ORNL)</i> , <i>Michael Hatridge (U. of Pittsburgh)</i>
12:15 – 1:15 p.m.	LUNCH
1:15 – 2:45 p.m.	Panel 2 – Quantum Computation for Machine Learning, AI, and Optimization Panel Moderator: <i>David Miller (NETL)</i> Panel Members: <i>Zlatko Minev (IBM)</i> , <i>Nick Sabinidis (Carnegie Mellon)</i> , <i>Earl Scime (WVU)</i> , <i>Aaron Hussey (Integral Analytics)</i> , <i>John Sirola (SNL)</i> , <i>Michael Flatté (U. of Iowa)</i>
2:45 – 3:00 p.m.	BREAK
3:00 – 4:30 p.m.	Panel 3 – Quantum Computation/Simulation for Chemistry and Materials Panel Moderator: <i>Jeremy Levy (U. of Pittsburgh/PQI)</i> Panel Members: <i>Philip Richerme (Indiana U.)</i> , <i>Götz Voser (U. of Pittsburgh)</i> , <i>Ignasi Palou-Rivera (RAPID Manufacturing Institute)</i> , <i>Raphael Pooser (ORNL)</i> , <i>Mike Santos (U. of Oklahoma)</i> , <i>Andrew Baczewski (SNL)</i>
4:30 p.m.	Adjourn

Wednesday, November 20, 2019

8:00 – 8:30 a.m.	Check-in/Breakfast
8:30 – 10:00 a.m.	Panel 4 – Quantum Computation for Process Modeling/CFD and Quantum Networking Panel Moderator: <i>Richard Bajura (WVU)</i> Panel Members: <i>Joe Berry (NREL), Peyman Givi (U. of Pittsburgh), Michael Lenenberger (U. of Central Florida), Stephen Bush (GE), Ahmad Haidari (ANSYS), Supratik Guha (ANL)</i>
10:00 – 10:15 a.m.	BREAK
10:15 – 12:15 p.m.	Facilitated Brainstorming Session – Opportunities for Fossil Energy Applications
12:15 – 12:30 p.m.	Closing Remarks
12:30 – 1:30 p.m.	LUNCH