

**QISE-NET – 2021 Annual Meeting**  
**Monday - Wednesday, June 14 - 16, 2021**  
 11 AM to 1 PM Each Day (all times are Central Daylight Time)

Virtual Location:

<https://uchicagogroup.zoom.us/j/99997438352?pwd=RnE4a29hc1E4ZFo2T2dvSUdPN1UyUT09>

**MONDAY, JUNE 14, 2021**

11:00 – 11:05 AM	Welcome	<b>David Awschalom</b> , Liew Family Professor of Molecular Engineering, UChicago; Senior Scientist, Argonne
11:05 – 11:50 AM	Keynote	<b>Marco Pistoia</b> , Managing Director, Research and Engineering, JPMorgan Chase  Quantum Computing for the Financial Industry
11:50 – 12:00 PM	Break	
12:00 – 1:00 PM	Student Talks  Topic: Quantum Computing; Moderated by Thomas Searles	<b>12:00 — Christina Daniel:</b> Georgetown University/IBM Developing a Quantum Chemistry Algorithm for Conventional and Quantum Computers <b>12:12 — Andy Goldschmidt:</b> University of Washington/LLNL Bilinear dynamic mode decomposition for quantum control <b>12:24 — Swarnadeep Majumder:</b> Duke/ORNL Characterizing and mitigating errors in variational algorithms <b>12:36 — Shi-Ning Sun:</b> Caltech/LBNL Digital Quantum Simulation with Multi-qubit Interactions on a Dynamically Reconfigurable Quantum Processor <b>12:48 — Daochen Wang:</b> UMD/Microsoft Quantum algorithms for reinforcement learning with a generative model

**TUESDAY, JUNE 15, 2021**

11:00 – 11:05 AM	Welcome	<b>Danna Freedman</b> , F. G. Keyes Professor of Chemistry, MIT
11:05 – 11:30 AM	Student Talks  Topic: Quantum Materials/Devices; Moderated by Danna Freedman	<b>11:05 — Ashley Blackwell:</b> Howard/NRL Molecular Spin Quantum Materials and Entanglement Platforms for Quantum Technologies <b>11:17 — David Curie:</b> Vanderbilt/ORNL Characterization of single-photon emitters in hexagonal boron nitride

11:30 – 12:10 PM	Panel Discussion: Perspectives from recent QISE-NET graduates Moderated by: Elizabeth Goldschmidt	<b>Kanav Setia</b> , QBraid; <b>Tongyang Li</b> ; Post-Doctoral Appointee, MIT; and <b>Natalie Brown</b> , Honeywell Quantum Solutions
12:10 – 1:00 PM	QISE-NET Student Poster Session	Gathertown: <a href="https://gather.town/app/IKXmUQHzGk4Ad4j3/UChicagoPME">https://gather.town/app/IKXmUQHzGk4Ad4j3/UChicagoPME</a> Password: pme2021

### WEDNESDAY, JUNE 16, 2021

11:00 – 11:05 AM	Welcome	<b>David Awschalom</b> , Liew Family Professor of Molecular Engineering, UChicago; Senior Scientist, Argonne
11:05 – 11:30 AM	Student Talks Topic: Quantum Optics, Materials, and Sensors;	<b>11:05 — Hugo Larocque</b> : MIT/Sandia Arbitrary optical mode transformations via programmable multimode interference <b>11:17 — Rianna Greer</b> : Northwestern/IBM Inducing charge transfer states in optically addressable vanadium(III) polypyridine complexes
11:30 – 12:00 PM	Keynote	<b>Giulia Galli</b> , Liew Family Professor of Molecular Engineering and Chemistry, University of Chicago; Senior Scientist, Argonne National Laboratory; Director the Midwest Integrated Center for Computational Materials
12:00 – 12:40 PM	Student Talks Topic: Quantum Optics, Materials, and Sensors; Moderated by Mark Saffman	<b>12:00 — Tristan Wilkinson</b> : West Virginia University/NIST All-on-chip nanophotonic devices coupling to multiple polarizations of single quantum emitters <b>12:13 — Matthew Van Niekerk</b> : RIT/AFRL Quantum Integrated Photonic Chip Packaging <b>12:26 — Navin Lingaraju</b> : Purdue/ORNL Frequency-bin Quantum Photonics
12:40 – 1:00 PM	Wrap up and QISE-NET Student Poster Session	Gathertown: <a href="https://gather.town/app/IKXmUQHzGk4Ad4j3/UChicagoPME">https://gather.town/app/IKXmUQHzGk4Ad4j3/UChicagoPME</a> Password: pme2021