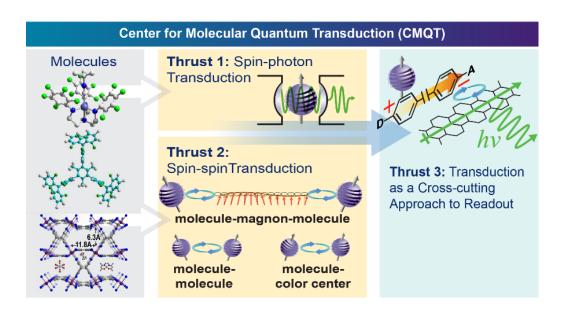
Center for Molecular Quantum Transduction (CMQT) Michael R. Wasielewski, Director (Northwestern University); Class: 2020-2028

MISSION: Quantum transduction is the coherent exchange of information between quantum systems, which is an essential element of quantum information science. The mission of CMQT is to develop the fundamental scientific understanding needed to conduct quantum-to-quantum transduction through a bottoms-up synthetic approach that imparts atomistic precision to quantum systems.



RESEARCH PLAN

- Investigate spin-photon transduction in hybrid materials at both the ensemble and single molecule levels.
- Explore spin-spin transduction in hybrid materials as a modular and generalized approach to exchanging quantum information between dissimilar quantum systems.
- Develop new strategies for employing transduction to enhance the readout of quantum information encoded in molecular spin qubits.





Northwestern
Cornell University















