Contribution ID: **1146** Type: **Invited Oral Presentation**

M3Or4B-01 [Invited]: Progress and Challenges for Engineering Superconducting Qubits

Wednesday 24 July 2019 16:15 (30 minutes)

Superconducting qubits are coherent artificial atoms assembled from electrical circuit elements and microwave optical components. Their lithographic scalability, compatibility with microwave control, and operability at nanosecond time scales all converge to make the superconducting qubit a highly attractive candidate for the constituent logical elements of a quantum information processor. In this talk, we review the progress and challenges of engineering superconducting quantum computing implementations.

Primary author: Prof. OLIVER, William (MIT)

Presenter: Prof. OLIVER, William (MIT)

Session Classification: M3Or4B - Focus Series D - Joint CEC and ICMC Session: Quantum Computing Overview