**Speaker suggestions for QIS workshop, Kellogg Center, Sept. 30 – Oct. 3 2018**

**Mark Dykman**

Ivar Martin (Physics, Argonne): Noise and decoherence in quantum systems

Andrew Jordan (Physics, U. Rochester): Weak quantum measurement, quantum information, noise

# Alex Korotkov (Elec. Eng, UC Riverside): quantum computing with superconducting qubits

William Oliver (Physics, MIT): Engineering Quantum Systems; superconducting qubits, AMO

**Steve Hsu**

John Preskill (Caltech): Long time spokesperson for the field

Eddie Farhi (MIT): Quantum annealing, homotopy methods, algorithms  
C. Jess Riedel (Postdoc, Perimeter): Decoherence, quantum enhanced particle detection

**Matt Hirn**

Seth Lloyd, MIT. Quantum machine learning.

**Angela Wilson**

Alan Aspuru-Guzik, Harvard University: Quantum simulators, algorithms, quantum chemistry

Michael Wasielewski, Northwestern University: QC for quantum chemistry

**Jeff Shenker**

Fernando Brandao (Caltech) - Entropy and information

Ramis Movassagh (IBM) - Algorithms

Matthew Hastings (Microsoft) – Topological order and quantum computation

**Johannes Pollanen**

Kater Murch (Washington University St. Louis): Superconducting qubits and open quantum systems

Briton Plourde, Syracuse University: Superconducting qubits, scaling to large size quantum computers

David Schuster, University of Chicago: Superconducting qubits, hybrid devices with electrons on helium

Steve Lyon, Princeton University: Silicon based electron spin quantum computing, electrons on helium.

Malcolm Carroll, Sandia National Labs: Silicon spin/charge qubits in quantum dots

**Morten Hjorth-Jensen**

David Dean (head of physics division at ORNL): QC in nuclear physics

Thomas Papenbrock (ORNL, U. Kentuckey): QC in nuclear physics

Pavel Lougovski: QC in nuclear physics; also broader algorithms and photonic bits

Martin Savage (U Washigton Seattle): QC applied to LQCD

I proposed the following workshop schedule, with each session having format:

Talk 1:  36 minutes; Talk 2  36 minutes; Discussion 18 minutes

A day schedule would then be (MTW, October 1, 2, 3)

8:30 - 10:00 session 1

10:00-10:30 Coffee break

10:30-12:00 session 2

12:00-2:00 Lunch

2:00-3:30 Session 3

3:30-4:00 Coffee Break

4:00-5:30 Session 4

6:00:  Dinner

Wednesday (3rd) have 3 sessions instead of 4, so people can fly out. The total number of speakers is 22.

We could have a reception Sunday night, a poster session and buffet dinner at Kellogg on Monday night. Conference dinner on a riverboat Tuesday night.

Alternatively, we could start at 9, have an extra 30minutes at lunch and end at 5pm. That would reduce the number of speakers by 4 or so and make the schedule less hectic.