For a calendar of technical society meetings in the Mid-Hudson Valley go to:
http://pok.acm.org/calendar.html and/or to MHVLUG's calendar at https://mhvlug.org/calendar

Poughkeepsie Chapter of the Association For Computing Machinery

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MEETING NOTICE

Free and open to the public

Topic: **Quantum Computing on the IBM Quantum Experience with the Quantum Information Software Toolkit**

Speaker: **Nick Bronn**

When: **Monday, January 22nd, 2018, 7:30 pm**

Where: **Marist College, Hancock Center, Room 2023**

Directions: **Building 14 on the map at http://www.marist.edu/about/map.html**

Parking: Please park at black dot #10 on http://www.marist.edu/about/map.html (the lot North of the Hancock Center #14) or in the lot on the South-East corner of Route 9 & Fulton St. (S/E of the former Main Entrance).

About the Topic: Last year IBM launched the Quantum Experience (QX), a small quantum computer on the cloud for use by anyone. The QX allows users to compose programs in a quantum circuit model which is then compiled and implemented with superconducting circuit technology. More recently, IBM launched the Quantum Information Software Toolkit (QISKit), an open source platform for programming quantum computers with Python. This talk provides an overview of the circuit model of quantum computing as well as its physical implementation, presents the quantum processors on offer with the IBM QX, and demonstrates their control via QISKit.

About the Speaker: Nick is a Research Staff Member in the Experimental Quantum Computing Group at IBM's T.J. Watson Research Center, where he works to build, understand, and scale ever-larger quantum processors. He completed his Ph.D. in condensed matter physics at the University of Illinois in 2013, and while he converted to the field of quantum computing afterwards, he looks forward to the eventual application of quantum computers to the study of strongly-correlated electron systems he formerly worked on. His contributions to quantum computing include increasing qubit lifetime by impedance engineering, fast and high-fidelity qubit readout, and novel packaging for “breaking the plane” of the quantum processor.

Cost: **Our meeting is Free and open to the public**

Dinner: **6:00 pm, Palace Diner, 845.473.1576**
Map and menu: www.thepalacediner.com
All are welcome to join us for dinner

We thank Marist College for hosting the chapter's meetings.

P - L - E - A - S - E P - O - S – T

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