

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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aa aa	cc c	mm m	mm	MEETING NOTICE
aa aa	cc cc	mm	mm	
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Program: Graph Laplacian as Quantum State Density Matrices and their Entanglement Properties

When: 7:30 pm, Monday, May 22nd, 2017

Where: Hancock Center, Room 2023, Marist College

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 East of Route 9, S/E of the former Main Entrance.

Speaker: Chai Wah Wu

About the Program:

Quantum entanglement is an unintuitive phenomenon in quantum physics that has proven to be crucial in implementing efficient quantum algorithms and quantum encryption systems. It is known that the quantum entanglement decision problem is NP-hard. Recently, the study of graph Laplacian matrices as subsets of state density matrices allows for more progress in solving the decision problem and relates quantum entanglement to graph structure. In this talk we will discuss some recent results in this area.

About the Speaker:

Chai Wah Wu, Ph.D., is a Research Staff Member in the Center for Optimization, Mathematics, and Algorithms at the IBM T. J. Watson Research Center, developing innovative solutions for data analytics and the modeling of complex processes. Dr. Wu's recent research projects include developing digital halftoning solutions for high speed printers, and developing smarter transportation solutions for the city of Dubuque, Iowa.

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.
Refreshments are served after the meeting.
For further information, email collier@acm.org or call 845.522.1971.

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