

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**  
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**Topic:** Program Verification with Proof Assistants: The Time Has Come

**Speaker:** Bob Cotton

**When:** Monday, November 20<sup>th</sup>, 2017, 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:** Software security breaches have become a news staple. While computer hardware has become very reliable, software has not. The ultimate security weapons among computer languages are the proof assistants, such as Coq, F\* (FStar), and Idris. These permit computerized proofs of correctness of code. We make an economic case for their likely ascendancy.

Next, we trace some of the ideas and concepts that surround proof verification in both mathematics and programming, and exhibit some of the literature and tools that allow a programmer to learn how to use these languages.

**About the Speaker:** Bob is the Poughkeepsie ACM program chair and organizer of the Hudson Valley Programmers meetup. He spent 30 years in computing software and support, most recently at the Clearing House in New York. Prior to that he taught mathematics at the University of Pennsylvania, Drexel, Bucknell, and SUNY New Paltz. Bob's interests include two long-standing projects in music and voting theory. He continues to trot for exercise.

**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](http://www.thepalacediner.com)  
All are welcome to join us for dinner.

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

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