

**PLEASE FORWARD THIS ANNOUNCEMENT TO OTHERS WHO MIGHT BE INTERESTED
IN THE TOPIC (ESPECIALLY EDUCATORS AND STUDENTS)**

Title: Some Statistical Applications in Cybersecurity

Date/Time: Tuesday, October 17, 2017 4:00–5:30 p.m.

Informal reception to follow at approximately 5:45 p.m. at East Street Café on the mezzanine level of Union Station.

Speaker: David J. Marchette, Naval Surface Warfare Center, Dahlgren Division

Chair: Leanna Moron, NORC at the University of Chicago

Sponsors: WSS Statistics Education Committee, WSS Methodology Section and WSS Defense and National Security Program Committee

Location: Bureau of Labor Statistics Janet Norwood Conference Center, Rooms 7/8 (Please check board in case of change of room)

BLS is located at 2 Massachusetts Avenue, NE. Use the Red Line to Union Station. Parking in the area of BLS is available at Union Station. For parking information see <http://www.unionstationdc.com/parking>. No validation is available from BLS for reduced parking rates.

RSVP: To be placed on the seminar attendance list at the Bureau of Labor Statistics, you need to e-mail your name, affiliation, date of the seminar and seminar name to wss_seminar@bls.gov (underscore after 'wss') by noon on Friday, October 13. Please bring a photo ID to the seminar.

Abstract: There are many aspects of cybersecurity that lend themselves to statistical analysis. In this talk I will give an introduction to some of the data that is available, some of the questions that one is interested in, and some simple yet powerful tools for investigating the data. Simple plots will allow us to understand many of the characteristics of network flows and certain types of network attacks. Slightly more sophisticated probability density estimation methods (similar to histograms) will provide insight into the structure and the way the data changes in time. Finally, we'll look at some methods from pattern recognition to characterize malicious software. Most of the talk will be at a level accessible to anyone who's taken a basic statistics course, and I will point out directions for further investigation for those with a stronger statistics background.

Remote Access: WebEx link:

<https://dol.webex.com/dol/j.php?MTID=m37b4926f6e1de10efcb3948fcda8c649>

Note: Particular computer configurations might not be compatible with WebEx

For audio: Call (866) 865-9536 (Toll Free) or (517) 966-0857

Attendee access code: 744 124 3

POC email: Carol Joyce Blumberg, cblumberg@gmail.com