

Course Title: Effectively Managing Cyber Supply Chain Risk: Reviewing The Evidence**Abstract:**

This session will review the findings of an almost decade-long funded research collaboration between the Supply Chain Management Center of the R. H. Smith School of Business, University of Maryland and the National Institute Of Standards & Technology. This research focused on the emerging discipline of Cyber Supply Chain Risk Management (CSCRM) and on gathering large-scale survey and other data on industrial practices. In 2017, this collaboration expanded to include the insurance industry (Zurich & Beecher Carlson) and produced the first evidence-based analysis of the impacts of enterprise cyber supply chain risk practices on cyber-breach outcomes.

The session will specifically focus on two major research insights:

-Best ways to exert strategic control over the end-to-end cyber supply chain; and mechanisms to bring together risk management, supply chain and cybersecurity executives to build a new organizational competency: CSCRM. Formal CSCRM programs can positively impact the cyber-performance of supply chain platforms and the ecosystems of hardware/software/ network vendors and customers/users.

-Use of data analytics to define best cybersecurity practices that are associated with reductions in overall and specific types of breaches.

These insights can help build more secure cyber supply chain risk practices; and protect the flow of critical information across the transport value chain.

Organization: University of Maryland

Website: <https://www.rhsmith.umd.edu/centers-excellence/supply-chain-management-center>

Instructor(s): Dr. Sandor Boyson



Dr. Sandor Boyson serves as founding Co-Director, Supply Chain Management Center; and Research Professor at the Robert H. Smith School Of Business at University Of Maryland College Park. He also holds an Affiliate Faculty Appointment at the Institute Of Systems Research, Clark School Of Engineering, College Park.

Over the past ten years, he has served as principal investigator /advisor in Cyber Supply Chain Risk Management for the National Institute Of Standards & Technology (NIST); and he is the author of seven reports on the subject released through NIST. In 2017, Dr. Boyson and his colleague, Ms. Holly Mann, won the IEEE inaugural Cybersecurity Award For Practice for their

NIST-supported Cyber Risk Portal; he also completed a foundational study for NIST on cyber predictive analytics.

In 2016, he moderated the panel on “Smart Supply Chains” at the U.S. Government’s Annual Investment Summit, Select USA, which draws investors from around the world. In 2012, he was appointed by the U.S. Secretary Of Commerce as a member of the Advisory Committee on Supply Chain Competitiveness; and served for two years as the Chair of the IT/Data Sub-Committee. The sub-committee’s recommendations on accelerating the development of the electronic Single Window trading system were adopted by the President’s 2014 Executive Order on the Single Window.

Dr. Boyson has thirty years of experience as a senior supply chain and IT consultant to public and private organizations. In addition to his supply chain research and consulting, Dr. Boyson has been teaching graduate courses in Technology Management, Supply Chain Management and Risk Management at the University Of Maryland/ R.H. Smith Business School for 25 years. In 2015, he was named educator of the year by the Global Supply Chain Resiliency Council.

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