



UCF

FACULTY RESEARCH TALKS

LISTEN. LEARN. COLLABORATE.

Zoom talk | Friday, June 11, 2021 | Noon to 1 p.m.



PRESENTER 1:
**DAN
SCHIAPPA**
Chief Product
Officer, Sophos

INDUSTRY PARTNER SPOTLIGHT:

Sophos

Threat Landscape and Sophos Response

Businesses have created a very interconnected supply chain which is under persistent attack by an intelligent adversary. Ransomware dominates the headlines as we've seen with the Colonial Pipeline attack, and attackers have shifted to a comprehensive approach that combines automation with hands-on operation. This shift requires a parallel adaptation in IT security to detect suspicious behavior and events before they become a breach. This presentation will explore how an adaptive security ecosystem can protect connected technology systems.

Dan Schiappa is chief product officer with Sophos. In this role, Dan is responsible for the overall strategy, product management, architecture, research and development, and product quality for the network security, endpoint security, cloud security, messaging security and Sophos Central groups, and drives next-gen innovation into the entire portfolio. Prior to joining Sophos, Dan served as senior vice president and general manager of the Identity and Data Protection Group at RSA, the Security Division of EMC. Previously, he held several GM positions at Microsoft Corporation, including Windows security, Microsoft Passport/Live ID, and Mobile Services.



PRESENTER 2:
**EDUARDO
MUCCIOLLO**
Professor,
Department of
Physics,
College of Sciences

Simulations of Quantum Systems: From One- to Many-Particle Problems

Quantum mechanical systems are hard to predict analytically and hard to simulate in classical (non-quantum) computers. Yet, understanding their properties is key to advance science and technology. In this presentation, Dr. Mucciolo will show proposals and tests of novel numerical computational and simulation methodologies to tackle problems in quantum mechanics, from single particles (e.g., independent electrons) to many particles (e.g., correlated systems). There is an interesting correspondence between the complexity of quantum problems and computational combinatorial complexity.

Dr. Mucciolo is a theoretical condensed matter physicist by training. His research is split between electronic transport in low-dimensional systems and quantum information and quantum computation. He holds a Ph.D. in physics from Massachusetts Institute of Technology and B.S. and M.S. degrees in physics from the University of Sao Paulo, Brazil. Prior to joining UCF, Dr. Mucciolo was a faculty member at Pontifical Catholic University of Rio de Janeiro and a visiting associate professor at Duke University. His current external funding comes from the National Science Foundation and the U.S. Department of Energy. He served as chair of the UCF Department of Physics from 2016 to 2021.