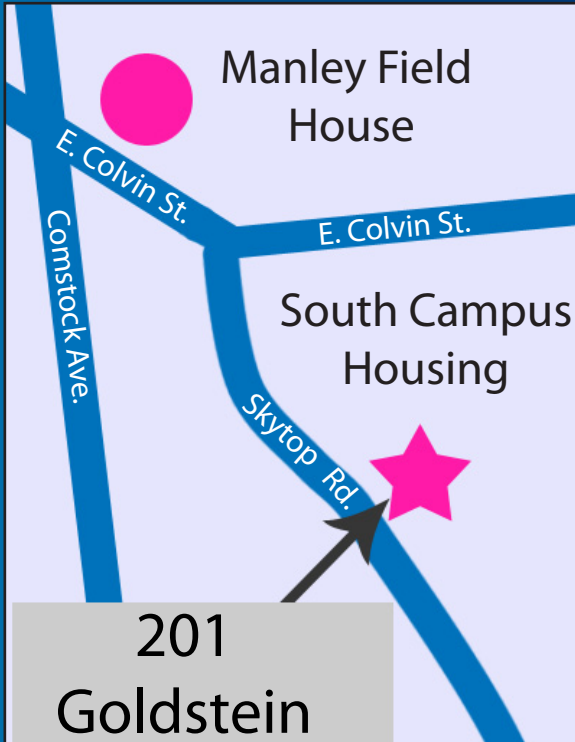


Thursday, October 23rd

6 pm

Syracuse University
Goldstein Student Center
Room 201



IEEE

Microwave over Fiber: Applications and Performance



John MacDonald
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John MacDonald is Vice President and General Manager of Linear Photonics, LLC and Director of Advanced Product Development at Linearizer Technology, Inc., located in Princeton, NJ. Mr. MacDonald has more than 25 years experience in RF and microwave engineering and business development including fiber optic components and systems, solid state and traveling wave tube power amplifiers, satellite communications, and antenna design. Prior to joining LPL/LTI, Mr. MacDonald served as Product Line Manager for Specialty Products at JDS Uniphase in Horsham, PA. Prior to that, he was Engineering Manager for Power Amplifier Products in the Space Systems Group at Lockheed Martin, Newtown, PA.

Mr. MacDonald received a B.S.E.E from the Rochester Institute of Technology in 1989, and an M.S.E.E. from Syracuse University in 1993. He holds three patents and is the author of numerous publications.

The field of microwave photonics has experienced continued growth over the past several decades, due to the commercialization and availability of high power, low noise semiconductor lasers and photoreceivers, as well as a variety of commercial passive optical components that allow for the rapid development of system-level solutions for applications including antenna remoting, signal and sensor distribution, delay lines, weight reduction, and EMI immunity. This talk will highlight the primary aspects of a microwave photonic link including modulation and detection schemes, impedance matching, linear and nonlinear fiber effects, and performance factors such as gain, noise and linearity.

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