**SEMINAR TITLE**

“Implementing Supply Routing Optimization in a Make-to-Order Manufacturing Network”

**SEMINAR SPEAKER**

Jérémie Gallien
MIT Sloan School of Management

**PROGRAM**

2:50 - 4:00 p.m. Lecture
3:45 - 4:00 p.m. Q&A and Discussion

**ABSTRACT**

Dell's supply chain for desktops involves Asian vendors shipping components by sea to several U.S. plants. While suppliers are responsible for shipping enough inventory, Dell can re-route and expedite their shipments while in transit and also transfer on-hand inventory in order to balance supply across sites. This presentation describes the development, implementation and impact of the process and optimization-based control system now used by Dell to address this supply routing challenge for its US-bound monitors. This new methodology is estimated to have reduced Dell's inventory re-positioning costs for monitors by about 60%.

**BIOGRAPHIC PROFILE**

Jérémie Gallien is an Associate Professor in the Operations Management Group at the MIT Sloan School of Management and is also affiliated with the MIT Operations Research Center, the MIT Leaders For Manufacturing program and the Singapore - MIT Alliance. His research involves the development, implementation and evaluation of mathematical optimization models for the real-time control of physical flows and trading interfaces in supply chains. Dr. Gallien teaches a variety of classes in Sloan's MBA, LFM and Ph.D programs, including Operations Management, System Optimization, Simulation, and several research seminars. He holds a Ph.D in Operations Research from MIT and an Eng.D in Industrial Engineering and Applied Mathematics from the Ecole des Mines de Paris. Dr. Gallien lives in Brookline, MA with his partner Sophie Currier and their children Théo and Léa.