

8:00 *Conference Check-in*

8:20 *Welcome and Introduction*

8:30 ***Turning Digital Disruption into Competitive Advantage***

Jeanne Ross – Principal Research Scientist, MIT Sloan School of Management

Social media, mobile, analytics, cloud, and the Internet of Things are among the technologies that are transforming the competitive landscape. How can enterprises compete successfully in this highly disruptive environment and what is the role of supply chain management?

9:30 ***Additive Manufacturing: Current Status and Future Potential***

John Hart – Associate Professor, Mechanical Engineering, MIT

Additive manufacturing – and specifically 3D printing – is now well established in a number of industries, but the technology is still evolving. How will 3D printing develop over the next five years or so, and how far off are mass manufacturing applications?

10:30 *Break*

11:00 ***Visual Analytics: The Answer to Data Overload?***

Matthias Winkenbach – Director, MIT Megacity Logistics Lab, Center for Transportation & Logistics

Using technologies such as holographic projections and high-resolution, multi-touch displays, Visual Analytics (VA) delivers new ways to visualize and interact with data, models, and analytical tools. How can VA help practitioners to interpret floods of supply chain data and take analytics to the next level?

12:00 *Lunch*

1:00 ***Industry Applications of a New Silicon Photonics Sensor Platform***

Anuradha Agarwal – Principal Research Scientist, MIT Microphotonics Center

Advances in integrated silicon photonics are enabling highly connected sensor networks that offer sensitivity, selectivity, and pattern recognition. The technology is well-suited to non-invasive applications, such as the creation of low-cost food sensor networks. How might these miniaturized optical sensors be deployed in supply chains?

2:00 ***Blockchain: How Transformative is the Technology?***

Christian Catalini – Assistant Professor, MIT Sloan School of Management

Blockchain technology has the potential to allow firms and individuals to share and verify transactions without the need for an intermediary. The financial sector is pouring millions of dollars into developing early blockchain applications, but what is the broader potential of the technology?

3:00 *Break*

3:30 ***How Advances in Materials Science Could Reshape Products***

Markus Buehler – McAfee Professor of Engineering and  
Head, MIT Department of Civil & Environmental Engineering

Using atom-by-atom design, materials scientists are developing new materials with increased strength and durability, and many other properties. How might these innovative materials change the way products are designed, manufactured, and used, and what could be the impact on supply chains?

4:30 ***Summary Discussion***

4:45 *Adjourn*