

Symposium Speakers – Smart City, Smart Manufacturing and Automation



Benjamin Cook

**Director of Printed
Electronics Research at
Kilby Labs**

Texas Instruments

Effects of Additive Manufacturing

Benjamin Cook is the Director of Printed Electronics Research at Texas Instruments Kilby Labs and is a leading expert in micron and nano-scale additive manufacturing. Prior to joining TI, Benjamin received his B.S. from Rose-Hulman Institute of Technology, his M.S. from King Abdullah University of Science and Technology, and his Ph.D. from Georgia Institute of Technology. Benjamin has been presented with the Rose-Hulman Distinguished Alumni and Engineer of the Year Awards, the Intel and APS Doctoral Fellowship Awards, and best paper awards at IET and UbiComp. Benjamin has published over 70 peer-reviewed articles, has over 50 patents and patents pending, and has written 4 book chapters on printed and flexible electronics over his career.

Abstract:

As quoted by the Economist “Digitization in manufacturing will have a disruptive effect every bit as big as in other industries that have gone digital, such as office equipment, telecoms, photography, music, publishing and films... the consequences of all these changes amount to a third industrial revolution”. This talk will give a broad-spectrum overview of the potential impact of additive manufacturing, not only on the semiconductor industry, but across automotive, industrial, medical and consumer markets as well as an overview of some of the technical challenges that are being overcome at Texas Instruments to implement additive manufacturing within the semiconductor industry.



Jennifer Jao

**Group Manager &
Divisional Information
Officer
R&D and
Manufacturing Site
Services**

**Toyota Motor North
America (TMNA)**

Internet of Things the Toyota Way

Jennifer Jao is an Information Systems Leader for Toyota Motor North America. She joined Toyota in 1993 in Production Control and held positions of increasing responsibility in Logistics Planning and Operation, Supply Chain Business Process and Systems Management, General Stores Management. She then joined Information Systems in 2011 and led Information Systems Innovation for Human Resources, Purchasing, Legal, Corporate Responsibility, Environmental, Safety and External Affairs. She also led the Voice of Group Leader program in North America. Currently, Jennifer is responsible for providing world class IT operations and IT solutions for all R&D and Manufacturing facilities throughout North America, enabling business functional objectives through IT innovation and partnership.

Abstract:

Toyota’s internal Manufacturing Internet-of-Things positively impacting Manufacturing’s safety, quality and productivity, while following the Toyota Way. Applying modern IT-based solutions in Manufacturing, with a unique perspective on how to balance the application of technology while being consistent with, and enabling, Toyota Production Systems (TPS) principles

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Smart City Initiatives at the City of Dallas



Jill Jordan
Assistant City Manager
City of Dallas

Jill A. Jordan, P.E. is an Assistant City Manager at the City of Dallas. She is responsible for the design, construction, operation, and maintenance of the city's streets and buildings, and management of the city's fleet and environmental initiatives. In her role, she is involved in Dallas' Smart City projects and green building program.

Abstract:

The City of Dallas is engaged in a number of Smart City and other technological initiatives helping to make the City more sustainable and to improve the quality of life for its residents and businesses. Some of these projects are being done in partnership with the Dallas Innovation Alliance and numerous corporate partners. This presentation will highlight these projects and efforts.