

*Title and Abstract:*

*Transportation Optimization – Experiences from the Field*

Dr. Kimberly Ross has spent over 20 years consulting and developing optimization solutions for some of the largest shippers in North America including well known retailers, grocers, food, and wholesale pharmaceutical distributors. In this talk, she'll share some of her unique transportation modeling experiences including large-scale inbound planning for multi-mode, dynamic cross-dock optimization typical of big-box retail, outbound planning with restricted time windows, split deliveries, tandem orchestration, and backhauls that are pervasive in the grocery market, and high density multi-stop routing optimization for food and pharmaceutical distribution with relays, cross-docks, and hybrid static/dynamic routing considerations. Additionally, she'll share some of the challenges her customers face as they look to take advantage of promising supply chain optimization synergies as well as explore options that new technologies in big data and cloud computing may provide.

*Bio:*

Dr. Kimberly Ross  
Vice President, Research & Development, Science  
Manhattan Associates

Dr. Kimberly Ross is Vice President of Research & Development at Manhattan Associates responsible for the Science team overseeing all optimization capabilities across the product suite including Transportation Management, Warehouse Management, Slotting Optimization, Demand Forecasting and Inventory Optimization. She received her B.S. from Stanford University in Mathematical Sciences and her Ph.D. from Princeton University in Operations Research and has over 20 years of experience designing and implementing mathematical optimization algorithms to solve highly complex real-world problems, mostly in the transportation and logistics industries.