*Proceedings of the 2014 Winter Simulation Conference*
*A. Tolk, S. Y. Diallo, I. O. Ryzhov, L. Yilmaz, S. Buckley, and J. A. Miller, eds.*

# SIMULATING QUEUES, CONVEYORS AND OVENS WITH STELLA PROFESSIONAL

Bob Eberlein

ISEE Systems, Inc.
31 Old Etna Road, Suite 7N
Lebanon, New Hampshire, USA

## ABSTRACT

Stella was introduced in 1985 to make the process of creating simulation models faster and more intuitive. Originally designed to represent continuous systems, functionality has been added to address discrete elements including queues for managing arrival and processing coordination, conveyors for handling material transit with loss, and ovens for handling batch processing. Because the models created do not require detail around every element in a processing chain, they are faster to create and analyze than fully specified discrete event simulations would be. This makes Stella ideal for situations in which full detail on all stations and items being processed is not necessary, and allows the models developed to more easily include business concepts such as profit, loss and competitive position. In this presentation, we will demonstrate how our newest product, Stella Professional, can be used to build, simulate and analyze process oriented models.