SPEAKER

Personal Summary

David Sturrock is Co-founder and Vice-President of Products for Simio, where he leads product development, training, and simulation services. With over 35 years of experience, he has applied simulation to improve productivity and reduce costs in transportation logistics, manufacturing, scheduling, high-speed processing, business processes, capacity analysis, process design, healthcare, and plant commissioning. He received his bachelor's degree in industrial engineering from The Pennsylvania State University with concentrations in manufacturing and automation and received the 2020 Outstanding Engineering Alumni Award from PSU.

David began his career at Inland Steel Company as a plant industrial engineer. During a time of industry consolidation, he built an innovative simulation/scheduling group to improve company-wide effectiveness and efficiency. This effort was so successful that it was expanded to also assist the steelmaker's suppliers and customers. He subsequently joined Systems Modeling as a development lead for SIMAN and Arena products, then joined Rockwell Automation as the Product Manager for Rockwell's entire suite of simulation and emulation products. David is an active member of the Institute of Industrial and Systems Engineers (IISE), APICS, INFORMS, PDMA, SME, and other professional groups. He is also a co-author of four simulation textbooks and a field faculty at the University of Pittsburgh.

David T. Sturrock

Contact Details

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Model Based Systems Engineering Bootcamp

UTRGV

▶ Simio
F o r w a r d   T h i n k i n g

WORKSHOP

Company Description

Simio is a private company headquartered near Pittsburgh Pennsylvania focused on delivering disruptive solutions that dramatically improve effectiveness of system design, generate optimal, feasible schedules proven with risk-based analysis, and provide the leading process digital twin solution. Simio was founded by C. Dennis Pegden, Ph.D., widely recognized as a pioneer in simulation, scheduling, and digital transformation.

Many of the same team members who brought you SIMAN, Arena, Tempo, and a long line of industry breakthroughs are now creating the next generation of simulation, scheduling, and digital transformation tools.
Find out more at www.simio.com

Workshop Overview

Years ago, you would use simulation only for the largest projects – use it once to help evaluate system design, then put it back on the shelf waiting for another big-budget project. Continuous advances in rapid modeling, flexibility, and functionality provide many new opportunities to better design and operate your system in the world of make-to-order, the Smart Factory, and Industry 4.0.

Learn how you can optimize your system design, plan the most effective intermediate-term strategy, then use that same tool in combination with your existing data to generate highly productive and feasible schedules. Find out how virtual factory models provided by the latest simulation tools are a key component supporting digital transformation to the Smart Factory of the future.

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Simio
Forward Thinking

WORKSHOP

Workshop Overview Continued

This workshop will start with an introduction to simulation and Simio, a leading simulation product. Then we will intersperse hands-on training with case study discussions describing how companies have used simulation in visualizing and analyzing systems for improving business operations. We will finish the day exploring the technology and benefits of recent disruptive technologies that are revolutionizing planning and scheduling and providing unique support for digital transformation and digital twins.

Attendees will receive a workshop manual as well as a free copy of *Deliver on Your Promise: How Simulation-based Scheduling Will Change Your Business*

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DELIVER ON YOUR PROMISE

How Simulation-Based Scheduling Will Change Your Business

C. Dennis Pegden, Ph.D.

INDUSTRY 1.0
Mechanization, steam power, weaving loom

INDUSTRY 2.0
Mass production, assembly line, electrical energy

INDUSTRY 3.0
Automation, computers and electronics

INDUSTRY 4.0
Cyber Physical Systems, internet of things, networks