

MANUFACTURING

AGENDA

- Historical summary of simulation applications in IBM Manufacturing
- Introduction of panel members

The introductions are intended to highlight panel members' job responsibilities as they relate to manufacturing applications of simulation. In addition, a brief outline will be given on each IBM organization represented and how the panel members fit in it.

- Discussion

The discussion will center on common issues faced by simulation practitioners in the manufacturing environment. Considerations include: the modeler's role in problem selection and formulation, data collection, and analysis; the trade-offs between "generic" and "application specific" models; the importance of statistical analysis; and the presentation, implementation, and measurement of modeling results. Of additional interest is the justification process required to establish or continue a simulation group.

- Question and answer period

MODERATOR: Becky Taube
IBM Corporation
Tucson, AZ 85744

PANELISTS: (see below)

MANNY ATHAVALE
IBM Corporation
1798 N.W. 40th Street
Boca Raton, FL 33431

Manny's current assignment is second-level manager in the Manufacturing Technology Center (MTC) located in Boca Raton, Florida. The MTC provides consulting services throughout IBM in the design and installation of computer-integrated manufacturing systems. His departments are responsible for material handling, and control systems and software.

Manny joined IBM in 1967 in Endicott, New York. After working in Industrial Engineering for three years, he was granted an educational leave. Following the completion of his studies, Manny began working on the QTAT (Quick Turnaround Time) project in East Fishkill, New York. The QTAT manufacturing line is a fully automated, computer-controlled wafer personalization process. He worked both as an engineer and manager on the software system specification and the modeling support.

Manny holds a BS degree in Mechanical Engineering and an MS degree in Operations Research from Cornell University. He also holds a PhD in Computer Science.

RON DOMBROSKI
IBM Corporation
P.O. Box 390
Poughkeepsie, NY 12602

Ron works in Industrial Engineering in Poughkeepsie, New York. He provides direct manufacturing support to the Poughkeepsie plant, including resource planning, cost control, and facility rearrangement. Ron is responsible for support of several sectors of the TCM (Thermal Conduction Module) line. The TCM is a key component in IBM's high-end processor series. Over the past year Ron has used A SIMPL/1-based generic simulation model to study the entire TCM manufacturing process. He is currently using the model in a cost optimization of the line.

Ron joined IBM in 1982 at Poughkeepsie. He holds a BS degree in Operations Research and Industrial Engineering from Cornell University.

KEN KLITZ
 IBM Corporation
 44 S. Broadway
 White Plains, NY 10604

Ken's previous assignment was project leader of the Manufacturing Modeling Center of Competence in Boulder. The center serves as the corporate focal point for the advancement and use of computer mathematical-modeling techniques in IBM manufacturing and distribution. Responsibilities of the center are (1) to assist and educate plant locations in selecting, developing, or customizing modeling tools, (2) to organize internal conferences, (3) to provide consulting services to plant locations, and (4) to interface with Research, Development, and Education on manufacturing concerns and recommendations.

Ken joined IBM in 1968 at Boulder. In 1972 he was granted a social-service leave to serve on the Presidential Commission evaluating material resources for the United States. He returned to Boulder in 1973. In 1976, Ken accepted a two-year assignment in Laxenburg, Austria, as a senior scientist in energy modeling at the International Institute for Applied Systems Analysis. After returning to Boulder in 1978, he became manager of the Resource Planning department in Industrial Engineering. He currently works in Manufacturing Planning for Information Products Division headquarters in White Plains, New York.

Ken holds a BS degree in Business from the University of Colorado, a BS degree in Industrial Engineering from Oklahoma State University, and an MS degree in Mechanical Engineering from the University of Colorado.

WAYNE OATES
 IBM Corporation
 740 New Circle Road
 Lexington, KY 40511

Wayne's current assignment is first-line manager of the Management Sciences department in Lexington, Kentucky. Management Sciences involvement in manufacturing modeling includes performance modeling of manufacturing and assembly processes with respect to: throughput analysis, queueing analysis, bottleneck identification, and impact of tool reliability. The scope includes transportation systems, material handling systems, production scheduling, and logistics and controls.

Wayne joined IBM in June 1979 at Lexington. He has worked in the Management Sciences department since he joined IBM. He holds a Masters of Engineering in Applied Mathematics from the University of Louisville.

ROGER WILTGEN
 IBM Corporation
 3605 Highway 52N
 Rochester, MN 55901

Roger currently works in the Competency Center of Distribution Engineering (CCDE) in Rochester, Minnesota. The CCDE provides review and analysis to 17 domestic IBM locations in the areas of distribution, material handling, and packaging. Roger is responsible for simulation support of those locations, especially in the area of automated material handling.

Roger joined IBM in 1967 at Rochester. He worked 1½ years in the finance organization before moving into financial programming support. His programming projects included cost accounting, payroll, and financial planning, both at Rochester and Atlanta. In 1975 Roger joined the product pricing group in Rochester. After two years he became a manager in Purchasing. He assumed his current position in 1979.

Roger received his undergraduate degree from the University of Wisconsin-Eau Claire and his MBA from Winona State University in Minnesota.