

Vendor Track Presentations

Monday, December 8, 2008

10:30 am-12:00 pm

VENDOR TRACK A

Features, Functionality and Power: What Sets Flexsim Apart / Cliff King (Flexsim Software Products, Inc.)

Conference attendees know what simulation is. They know what they would like simulation to be. Flexsim will show attendees how their simulator is unique from other simulators, in terms of its features, functionality and power. Flexsim will also take the time to show you what to expect in the very near future!

Enterprise Dynamics New Release V8.0 / Janis Britals (Incontrol Enterprise Dynamics)

Come and witness the new look and feel of Enterprise Dynamics 8. The new version is prepared to launch at the Winter Simulation Conference. Besides a renewed user interface aimed at improving the model builder's experience and improving his productivity, this release of Enterprise Dynamics is centered around a completely redesigned Logistics Library encompassing new and improved atoms and improving usability of the whole library. With Enterprise Dynamics 8 we will also streamline the licensing model, simplifying the choice of the right technology for your simulation problem.

VENDOR TRACK B

PMC Asprova / Marcelo Zottolo and Karthik Vasudevan (Production Modeling Corporation)

Asprova is a Windows-based production scheduling system for high-speed creation of schedules of nearly unlimited complexity and data size, supporting multiple scheduling algorithms and numerous constraints with fully interactive graphical displays. Offering a unique combination of sophisticated scheduling functionality, a powerful user interface, with the ease of use and integration.

Make an Impact with Demo3D / Ian McGregor (Emulate3D Ltd.)

Emulate3D technology provides for the rapid and realistic modeling of new automation concepts, helping you sell your ideas to stakeholders at all levels. With Emulate3D Controls Testing, companies can take controls validation off the project critical path, enabling faster system verification and shorter return on investment periods.

1:30 pm-3:00 pm

VENDOR TRACK A

Imagine That - ExtenSim 7 / David Krahl (Imagine That, Inc.)

See how quickly robust, intuitive models are built with the power tool for simulation - ExtendSim. Revolutionary new simulation technology and 3D animation in ExtendSim is paired with core ExtendSim features such as hierarchical model building, user interface creation, and interactive modeling to make it the tool to watch in the simulation industry. Don't miss this presentation!

VENDOR TRACK B

Applied Materials – AutoMod / Dan Muller (Applied Materials)

Decision-making in industry has become more complicated in recent years. Customers are more demanding, competition is fierce, and costs for labor and raw materials continue to rise. Managers need state-of-the-art tools to help in planning, design and operations of their facilities. Simulation provides a virtual factory where ideas can be tested and performance improved. The AutoMod product suite from Applied Materials has been used on thousands of projects to help engineers and managers make the best decisions possible. Come see the latest AutoMod release of one of the most widely used simulation software packages.

Introduction to Simio / C. Dennis Pegden (Simio LLC)

Intelligent objects make simulation easier. Gain hands-on experience with Dennis Pegden's new graphical modeling framework. It supports construction of models designed with object-oriented principles. Using familiar graphical process flows, build 3D animated models as easy as creating 2D models. Avoid text-based computer language.

3:30 pm-5:00 pm

VENDOR TRACK A

UDMTEK - PLCSTUDIO: Simulation-Based PLC Code Verification / Chang Mok Park (UDMTEK)

Proposed in this paper is the architecture of a PLC programming environment that enables a visual verification of PLC programs. The proposed architecture integrates a PLC program with a corresponding plant model, so that users can intuitively verify the PLC program in a 3D graphic environment. The plant model includes all manufacturing devices of a production system as well as corresponding device programs to perform their tasks in the production system, and a PLC program contains the control logic for the plant model. For the implementation of the proposed PLC programming environment, it is essential to develop an efficient methodology to construct a virtual device model as well as a virtual plant model. The proposed PLC programming environment provides an efficient construction method for a plant model based on the DEVS (Discrete Event Systems Specifications) formalism, which supports the specification of discrete event models in a hierarchical, modular manner.

SAS Simulation Studio and JMP / Ed Hughes (SAS) and Curt Hinrichs (JMP)

We'll explore the current and upcoming features of SAS Simulation Studio, a flexible discrete event simulation application. Its graphical user interface provides full support for building, executing and analyzing simulation models. SAS Simulation Studio integrates closely with JMP for experimental design and input analysis, and coordinates with JMP or SAS for analysis of simulation results.

VENDOR TRACK B

Rockwell Automation - What's New in Arena 13 / Jonathan C. Phillips (Rockwell Automation)

Please join us in exploring the new features of Arena 13. Learn how these new features can enhance the ability to interact with outside data sources and how they can broaden your ability in capturing statistics over unique time intervals.

Tackling the Big Problems Using GoldSim: Probabilistic Dynamic Simulation Software for Risk and Decision Analysis in Engineering, Science and Business / Rick Kossik (GoldSim Technology Group)

GoldSim is used to support strategic planning and risk analysis for complex systems. GoldSim can simultaneously represent continuous and discrete dynamics and provides powerful probabilistic modeling capabilities. This presentation summarizes capabilities and describes applications ranging from water resource and fisheries management, to climate change and planning manned space missions.

Tuesday, December 9, 2008

8:30 am-10:00 pm

VENDOR TRACK A

Siemens PLM Software – Tecnomatix Plant Simulation / Jeff Miller (Siemens PLM Software)

Learn how Tecnomatix Plant Design & Optimization improves collaboration among cross-functional teams through effective communication of factory design principles and the use of standardized resources within a managed, collaborative data environment. Using Plant Simulation you can optimize material flow, resource utilization, throughput and logistics at all levels of the global planning process.

Features, Functionality and Power: What Sets Flexsim Apart / Cliff King (Flexsim Software Products, Inc.)

Conference attendees know what simulation is. They know what they would like simulation to be. Flexsim will show attendees how their simulator is unique from other simulators, in terms of its features, functionality and power. Flexsim will also take the time to show you what to expect in the very near future!

VENDOR TRACK B

CreateASoft, Inc. - Next Generation Dynamic Simulation: How Simcad Pro is Different / Hosni Adra, (CreateASoft, Inc.)

The world we live in is ever changing. Your day is dynamic... so why not simulate it with a dynamic tool? Simcad Pro Next Generation Dynamic Simulator operates under a completely different paradigm than traditional static tools. Our patented multi-core simulation engine utilizes the most advanced hardware technology to interface directly to the engine allowing users to perform "on-the-fly" model changes during the simulation run, without the need to code. Experience the difference of dynamic simulation for *your* dynamic world. Stop by and take the Simcad Pro Challenge; we'll build your process from modeling to analysis, in under 30 minutes, while providing instant visualization in 2D and 3D. Forget what SIMAN says; drop off your business card for a chance to win Simcad Pro (a \$5000 Value) and say goodbye to traditional static tools!

ProModel Corporation - Project and Program Management / Joe Giannitti (ProModel Corporation)

You know simulation can answer the tough questions around layout, bottlenecks, capacity planning and capital justification, but did you know simulation is key to better project and program

management? Come see the latest ProModel innovations in simulation based PORTFOLIO and PROJECT management. Find out how the DoD and others are applying simulation to Strategic Resource Capacity Planning in a new paradigm.

10:30 am-12:00 pm

VENDOR TRACK A

XJ Technologies - Professional Tool for Multi-Method Simulation Modeling / Andrei Borshchev (XJ Technologies)

AnyLogic is the first and only simulation tool that supports system dynamics, process-centric (discrete event), and agent-based methods within one modeling language and one model development environment. We will demo several AnyLogic models and show how the user can benefit from using different modeling methods, and from agent-based modeling in particular. During the demonstration new AnyLogic 6.4 will be presented.

Enterprise Dynamics New Release V8.0 / Holger Pitsch (Incontrol Enterprise Dynamics)

Come and witness the new look and feel of Enterprise Dynamics 8. The new version is prepared to launch at the Winter Simulation Conference. Besides a renewed user interface aimed at improving the model builder's experience and improving his productivity, this release of Enterprise Dynamics is centered around a completely redesigned Logistics Library encompassing new and improved atoms and improving usability of the whole library. With Enterprise Dynamics 8 we will also streamline the licensing model, simplifying the choice of the right technology for your simulation problem.

VENDOR TRACK B

Introduction to Simio / C. Dennis Pegden (Simio LLC)

Intelligent objects make simulation easier. Gain hands-on experience with Dennis Pegden's new graphical modeling framework. It supports construction of models designed with object-oriented principles. Using familiar graphical process flows, build 3D animated models as easy as creating 2D models. Avoid text-based computer language.

Southwest Research Institute - Human Aggregate and Crowd Behavior Modeling Using MAICE Station™ / Pete Hottenstein (Southwest Research Institute)

Current events with national and international security implications have markedly increased the need for human aggregate and crowd behavior modeling systems. In response, Southwest Research Institute has developed MAICE Station, a software analysis tool using agent-based modeling to evaluate emergent behaviors based on the actions and interactions of simulated autonomous individuals in one or more groups. MAICE Station scenarios and associated models simulate the simultaneous actions of numerous independent agents in an attempt to re-create, analyze and predict the outcomes of complex human interactions. MAICE Station provides a variety of visualization tools and can be used as an analysis platform as well as a briefing and training tool for event management or post event evaluation.

1:30 pm-3:00 pm

VENDOR TRACK A

Frontline Systems - Risk Analysis, Simulation Optimization, Robust Optimization and More
/ Daniel H. Fylstra (Frontline Systems, Inc.)

See how you can easily analyze risk, run multiple parameterized simulations and find optimal solutions for uncertain models in Microsoft Excel, with Risk Solver Platform—Frontline Systems' new integrated product with best-of-breed Monte Carlo simulation, best-of-breed conventional optimization and deep support for simulation optimization, stochastic programming and robust optimization methods.

Systems Navigator - Scenario Navigator / Vincent de Gast (Systems Navigator)

The commercial simulation environments that are available today focus primarily on the development of simulation models. They are designed for a single user. They provide animation during the simulation run and in most cases they provide outcomes of the simulation run in reports. Our experience in developing computer based simulation models with different commercial and non-commercial simulation software packages and found that these packages do not offer sufficient support in: performing experiments with large complex models, performing experiments with multiple users, managing experiment data and results, analyzing the experiment results and comparing them. The items that are summarized above are a necessity to bring simulation technology to a wider use. Simulation technology could be very well used as an operational decision support tool. In order to meet this demand we have developed Scenario Navigator, a client-server based application that allows multiple users to create, populate, run, analyze and compare experiments.

VENDOR TRACK B

Rockwell Automation - What's New in Arena 13 / Jonathan C. Phillips (Rockwell Automation)

Please join us in exploring the new features of Arena 13. Learn how these new features can enhance the ability to interact with outside data sources and how they can broaden your ability in capturing statistics over unique time intervals.

Averill M. Law - ExpertFit Distribution-Fitting Software / Averill M. Law (Averill M. Law & Associates)

We will be demonstrating the ExpertFit distribution-fitting software, which has been the world's leading such product since 1983 in terms of the number of features, technical correctness, and the quality of documentation.