

"Systems Modeling Language (SysML) Tutorial"



Presented by:

Sanford Friedenthal
Distinguished Engineer

Saturday, 6 October 2007

8:00am – 5:00pm

Location: Kossiakoff Center

Johns Hopkins University Applied Physics Laboratory

11100 Johns Hopkins Road

Laurel MD

Tutorial: "Systems Modeling Language (SysML)"

The OMG Systems Modeling Language (OMG SysML™) is a general-purpose graphical modeling language for specifying, analyzing, designing, and verifying complex systems that may include hardware, software, information, personnel, procedures, and facilities. In particular, it provides graphical representations with a semantic foundation for modeling system requirements, behavior, structure, and parametric equations that can integrate with a broad range of engineering analysis. SysML represents a subset of UML 2.0 with extensions needed to satisfy the requirements of the UML™ for Systems Engineering RFP.

This tutorial provides an introduction to how SysML can address the needs of the systems engineer. It includes background and motivation, an overview of the SysML diagram types and language concepts, and selected sample problems to demonstrate how the language can be used as part of a typical SE process. The SysML specification was developed in response to requirements by a diverse group of tool vendors, end users, academia, and government representatives. The OMG SysML™ Specification was adopted in May 2006. For more information, go to <http://www.omgSysml.org/>.

Speaker: Mr. Sanford Friedenthal, Lockheed Martin

Sanford Friedenthal is a Principal System Engineer at Lockheed Martin. His experience includes the system life cycle from conceptual design, through development and production on a broad range of systems. He has been a systems engineering department manager, and a lead developer of advanced systems engineering processes and methods including the Lockheed Martin Integrated Engineering Process and the Object-Oriented Systems Engineering Method (OOSEM). Mr. Friedenthal also led the Industry Standards effort through the Object Management Group (OMG) and INCOSE to develop the Systems Modeling Language (OMG SysML™) that was adopted by the OMG in 2006. He also has participated in the development of the UML Profile for DoDAF and MODAF (UPDM).

Reservations: There is a strict headcount limit of 35. Reservations will be taken on a first come first serve basis. To register for the meeting, contact Dave Griffith at d.griffith@ngc.com. To pay by credit card or PayPal, visit our website: <http://www.incose.org/chesapeake>; or to pay by USPS, mail checks (payable to INCOSE-CC) to **Dave Griffith, PO Box 142, Linthicum, MD 21090-0142**. **All checks must be received NLT Thursday, 4 October, prior to start of tutorial!**

Tutorial Cost: \$75.00 including continental breakfast and lunch. **Payment:** Payment will be arranged at the time of your registration acceptance. No payment will be accepted at the door.

Cancellation Policy: If you make a reservation and then find that you will be unable to attend, please notify us not later than COB Monday, October 1st, to avoid liability for payment for the tutorial.

"Object-Oriented Systems Engineering Method (OOSEM) Tutorial"

Directions:

From Washington DC and Capital Beltway (I-495):

Take I-95 North toward Baltimore, 10 miles to Columbia exit (MD Route 32 West),
Go 2.5 miles to the Washington DC exit (US Route 29 South).
Go 1.5 miles south and take Johns Hopkins Road exit (bear right at the top of the hill).

Or from the Capital Beltway (I-495):

Take US Route 29 North (Colesville Road) 10 miles and follow signs for the turn onto Johns Hopkins Road.

From Baltimore and Baltimore Beltway (I-695):

Take I-95 South toward Washington DC.
Go 13 miles and take Columbia exit (MD Route 32 West).
Go 2.5 miles and take Washington DC exit (US Route 29 South).
Go 1.5 miles south and take Johns Hopkins Road exit (bear right at the top of the hill).

Once you're on Johns Hopkins Road:

APL is a half-mile west of US Route 29 on your right side. Pass the Texaco gas station and make the first right onto Pond Road, just past the APL Federal Credit Union. Park in the visitor's lot on your right side. The Kossiakoff Center is glass-enclosed building to the left of the Visitor parking lot.