



INCOSSE Chesapeake Chapter
International Council on Systems Engineering

Cordially invites you to a Tutorial on:
Saturday, 17 September 2011
(8:00 AM – Noon)



Practical Concepts for Model Based Systems Engineering

Presented by: Zane Scott, Vitech Corporation

Location: Kossiakoff Center
Johns Hopkins University / Applied Physics Laboratory
11100 Johns Hopkins Road, Laurel, MD 20723

Tutorial: The classic systems engineering domains (Requirements, Behavior, Architecture and Testing) are all typically treated as separate and are managed separately. Complexity and size often necessitate the use of a tool or tools to manage the domain. Tools are selected in each area and teams of “experts” manage the development and changes that take place. Problems arise because the domains are not actually discrete and unrelated. As the system design evolves domains impact each other. That necessitates communication between domains so that the realities of development in any one domain can be tracked into the others. This flow of data across the domains becomes an issue. Many methods have emerged as attempts to answer the problem of developing the system as a system. From the plan driven discipline of the classic waterfall approaches to the emphasis on responsiveness and flexibility in the agile school, these methods have all sought to produce a system solution for the customers’ problems. All, however, have created their own set of problems and limitations. This course discusses an approach to system design and improvement that is more agile than the traditional plan driven methods and, at the same time, maintains the disciplined system view avoiding the pitfalls of component engineering. We will discuss the concept of systems thinking and approach. We will see the importance of understanding the business process components of the system. We will explore the delivery of capability that is value-adding for the customer in a meaningful time frame without losing sight of the system context.



Instructor: Zane Scott leads the Professional services Team at Vitech Corporation. His degree in Economics focused on the application of the tools of economic analysis to the public policy arena. After graduate work in Counseling and Business Administration he earned his J.D. at the University of Tennessee. Zane’s career has focused on the dynamics and processes of group interactions at the macro and micro levels beginning with his work as a trial lawyer and continuing into his experience as a hostage/crisis negotiator and large group interventional mediator. Zane continued this work as a management consultant doing process analysis and improvement work in both government and private settings. As a principal consultant for Transformation Networks (TNI) he guided large and small groups in organizational redesign projects using systems engineering practices and tools to bring discipline and rigor to the work of making their organizations more efficient and effective. A pioneer in the “nontraditional” uses of MBSE for

organizational growth and development, TNI was very successful in providing their clients the competitive edge that comes from a rigorous approach to process engineering. At Vitech Zane brings to bear his knowledge and experience with organizational process development and his skills as a facilitator in leading Vitech’s efforts to maximize their customers’ application of MBSE and the Vitech tool, CORE. Zane is an experienced and skilled teacher and facilitator. He has taught throughout his career in both professional and traditional educational settings. He has presented classes on a wide variety of topics centered around leadership, communications, conflict management and group dynamics and processes. Zane combines a skilled presentation approach with an in-depth knowledge of group processes and organizational change management to make his topic accessible to professionals from a variety of disciplines. His experience with the non-traditional application of systems engineering tools and practices to business processes makes his presentations timely and relevant.

Cost: \$20 (This will pay for the light continental breakfast and a contribution to the [James E. Long Memorial Fund](#)).

Registration: To pay by credit card or PayPal, visit our website: <http://www.incose.org/chesapeke/>

Cancellation Policy: If you make a reservation and then find that you will be unable to attend, please notify [Glenn Gillaspay](#) by Wednesday Sept 14th, 2011. There will be no refunds after Wednesday Sept 14th, 2011.

Corporate Sponsor: We wish to thank the Applied Physics Laboratory for supporting the systems engineering profession through use of their facilities.

Directions: **JHU APL**, 11100 Johns Hopkins Road, Laurel, Maryland 20723, Phone (443) 778-5000
See APL's Visitor Guide for more: <http://www.jhuapl.edu/aboutapl/visitor/default.asp>

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

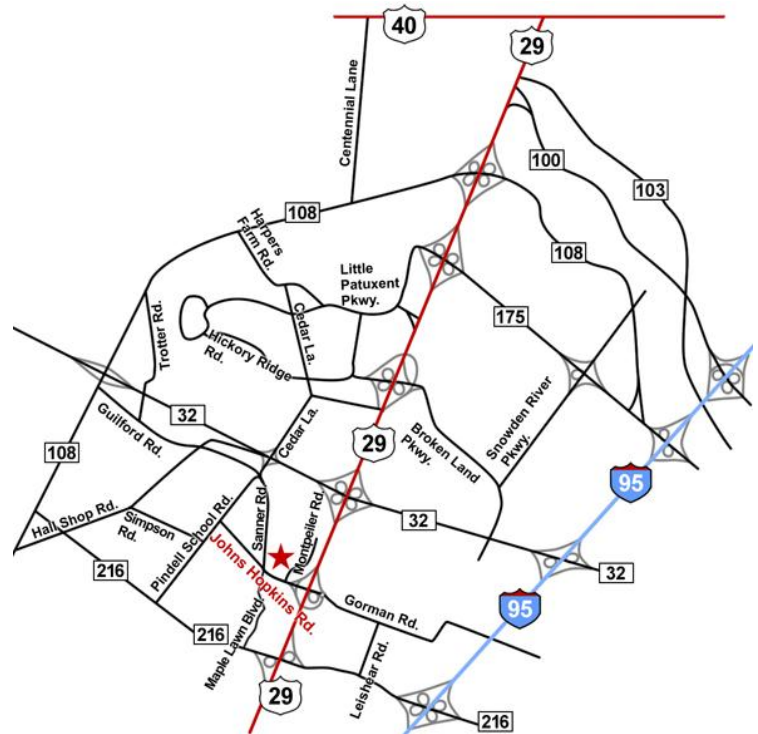
Take I-95 North toward Baltimore, 10 miles to Columbia exit (MD Route 32 West),
Go 2.5 miles to the Washington DC exit (US Route 29 South).
Go 1.5 miles south and take Johns Hopkins Road exit (bear right at the top of the hill).

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. Turn in at the first entrance, continuing past the pond on your left and park in the lower visitor's lot on your right side. Enter at the Kossiakoff Center (the building directly behind the pond) and proceed to the classroom wing.