



**International Council on Systems Engineering
Delaware Valley Chapter Meeting
(Non-members welcome to attend)**



Speaker 1: Dr. Bryan S. Cline

Organizational Barriers to the Implementation of Security Engineering



Speaker 2: Mr. Michael J. Chonoles

Status of the OMG SysML Survey

What's Wrong with UML from an SE POV?

Date: Thursday October 8, 2009

Cost: \$10 for the buffet meal (students \$5)

Agenda:

5:30 to 6:30	Arrival, Informal Introductions and Buffet Meal	
6:30 to 6:45:	Chapter Business	– Chapter President Terry Kling
6:45 to 7:30:	Speaker 1	– Dr. Bryan Cline
7:30 to 7:40:	Break	
7:40 to 8:30:	Speaker 2	– Mr. Michael J. Chonoles
8:30 to 8:45:	Wrap Up	– Chapter President Terry Kling

Place: **Children's Hospital of Philadelphia (CHOP)**

Wanamaker Building (Macy's Department Store)
Room 8029A/B – 8th Floor
Philadelphia, PA

Directions Below



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RSVP: Please notify Dr. Bryan Cline (clineb@email.chop.edu) and Mike Gehringer (michael.d.gehringer@boeing.com) if you are planning on attending. There are no admission restrictions or badging required for this site.

For further information about the International Council on Systems Engineering please visit the INCOSE website at <http://www.incose.org/> and the Delaware Valley Chapter website at <http://www.incose.org/delvalley/>.

***Directions to the Conference Room for the Children's Hospital of Philadelphia
INCOSE Meeting***

The meeting is in 8029A/B on the 8th floor of the Wanamaker Building (Macy's Dept Store) at 100 Penn Square East (just across from City Hall). There are several parking garages available in the immediate vicinity (including the Wanamaker Building) as well as street parking, although it's probably easiest to take the subway to 15th Street or the trolley to 13th Street and simply walk to the Wanamaker. Attendees should come into the Wanamaker through the Juniper Street entrance and go up the escalator to the 2nd floor. Go through the security desk at the north end of the building (to your right as you enter from Juniper Street). Go straight through security and bear right; the elevators are also to the right. Go to the 8th floor, turn left out of the elevators, go through the glass door, turn right and walk straight into the conference room (8029A/B).

Presentation 1: Organizational Barriers to the Implementation of Security Engineering

The link between security engineering and systems engineering exists at the earliest stage of systems development, and, as a whole, there is sufficient evidence to suggest the discipline of security engineering is sufficiently mature to support its implementation. However, there is little in the literature on the practical application of security engineering and even less empirical work grounded in adoption theory. In contrast, the body of knowledge on quality programs is quite extensive and includes general literature on quality models as well as adoption studies of their implementation. Specific factors related to quality implementations are also well documented and generally well understood. This survey study clearly substantiates a connection between these quality factors and security engineering, provides the opportunity for further research on causal models, and supports the application of lessons learned from quality program efforts to the implementation of a security engineering methodology in system acquisition and development.

Dr. Bryan S. Cline - Biography

Bryan S. Cline, Ph.D., is the Chief Information Security Officer and Director, Information Security Risk Management at The Children's Hospital of Philadelphia, Pennsylvania (USA), and former Technical Director of Information Assurance Services for QinetiQ North America Defense Solutions in Stafford, Virginia (USA). Dr. Cline has more than 25 years of experience in information systems—10 years of which were in information systems security management and engineering in the US Department of Defense (DoD) and North Atlantic Treaty Organization. He holds a Doctorate in Information Systems with a concentration in Information Assurance policy from the University of Fairfax, Vienna, Virginia (USA), a Master of Science degree in Industrial Engineering with a concentration in Operations Research from the University of Oklahoma, Norman (USA), and a Baccalaureate in Mathematics from the University of Texas at Arlington (USA). He has participated in security and risk panels at



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SecureWorld, Techno Security and Techno Forensics, spoken at the DoD Cyber Crime Conference and SecureWorld, and published articles in peer-reviewed journals and proceedings such as the Information Systems Control Journal and International Council on Systems Engineering and IEEE Computer Society symposia. Dr. Cline also holds multiple professional certifications in information and physical security, program management, and engineering, including the CISSP-ISSEP, CISM, CISA, CPP, CAP (PM-II), and the ASEP.

Presentation 2: Status of the OMG SysML Survey

Earlier this OMG issued an on-line survey to hear from SysML users about the state of SysML practice in the field, what's working and what's not. Even though the survey is still open, there are some things we can report on that indicate the state of the System Engineering community using SysML.

Presentation 3: What's Wrong with UML from an SE POV?

The OMG UML Road-Map T/F issued a RFI (Request for Information) about how UML should be evolving. The System Engineering Task Force produced a white paper expressing how UML should be fixed to work better in the types of projects that System Engineers work on. This presentation will cover some of the major areas of concern and give you an opportunity for feedback.

Mr. Michael J. Chonoles - Biography

Michael works as a Principal System Engineer for Lockheed Martin, specializing in standards and methodology. He's been involved in the creation and continued maintenance of the OMG standards of UML, SysML, and others. As the Chief of Methodology for Lockheed Martin's Advanced Concept Center (ACC), where he has led the technical side of the training, consulting, and mentoring practice, he has worked with many firms in *Technology Transfer*. An experienced author (e.g., co-author of *UML 2 For Dummies* and training material on *UML* and *SysML*), and instructor, Michael is lead in spreading the use of Model-Based System Engineering throughout Lockheed and the industry.

Michael has a MS-SE from the University of Pennsylvania and bachelors in Physics and Math from MIT