



July 2, 2014 |

| [Careers @ SEI](#)

The *SEI Bulletin* is a biweekly newsletter designed to keep you up to date on SEI news, events, research, and other matters of interest to the SEI community. Because of your past participation as an SEI member, you have been automatically subscribed to receive the *SEI Bulletin*. Should you not wish to continue receiving the *Bulletin*, you may unsubscribe with [SafeUnsubscribe](#). We hope you find the *SEI Bulletin* useful and informative.

Send Us Your Story

Do you have a story about how an SEI technology has positively affected your team or organization? If so, the SEI would like to hear about it. Send a short summary of your success to info@sei.cmu.edu and you could be featured in a future issue of the *SEI Bulletin*.

In This Issue

- [FloCon 2015 Call for Participation](#)
- [SEI Podcast Series: Safety and Behavior Specification Using the Architecture Analysis and Design Language](#)
- [SEI Blog: Is Your Organization Ready for Agile?](#)
- [TSP Symposium 2014](#)
- [SEI Jobs](#)
- [Training Opportunities](#)

News: FloCon 2015 Call for Participation

FloCon 2015, the annual network security conference hosted by the SEI's CERT Division, will take place in Portland, Oregon, on January 12-15, 2015 at the Hilton Portland & Executive Tower.

Interested participants are invited to submit abstracts for presentations, posters, and demonstrations pertinent to this year's conference theme, "Formalizing the Art." Submissions should address the art of network analysis and methods for making it more formal, rigorous, reliable, well grounded, or repeatable. In particular, the FloCon committee encourages submissions related to academic advances in novel analytics, operationalization, and automation of well-known techniques.

For more information and to register, please visit www.cert.org/flocon/.



Also in the news:

- [Insider Threat Center to Offer New Insider Threat Program Manager Certificate](#)
- [2013 SEI Year in Review Available for Download](#)
- [CERT Guide to Insider Threat Named a Must-Read Cybersecurity Book](#)
- [SEI Director Nielsen Selected for PBT Diamond Award](#)

SEI Podcast Series: Safety and Behavior Specification Using the Architecture Analysis and Design Language

In this podcast, Julien Delange discusses two extensions to the Architecture Analysis and Design Language (AADL): the behavior annex and the error-model annex. The behavior annex represents the functional logic of AADL components and interacts with the other system elements.

SEI researchers are currently participating in the ongoing improvements to this extension of the AADL by connecting it to other analysis tools. They have also defined new tools that analyze the model and produce safety validation documents, such as the one required by the safety standard SAE ARP4761.



Julien DeLange

[Listen to the podcast.](#)

SEI Blog: Is Your Organization Ready for Agile?

In 2010, the Office of Management and Budget issued guidance that advocates federal agencies employ "shorter delivery time frames, an approach consistent with Agile." This SEI Blog post is the fifth in our series on the SEI's [Readiness & Fit Analysis \(RFA\) approach](#), which focuses on helping federal agencies and other organizations understand the risks involved when contemplating or embarking on the adoption of new practices, such as Agile methods.

[Read about the RFA's Practices category, which helps organizations understand which Agile practices are already in use to formulate a more effective adoption strategy.](#)



Suzanne Miller

Events: TSP Symposium 2014

The Team Software Process (TSP) Symposium will be held in Pittsburgh, Pennsylvania, November 3-6, 2014.

The TSP Symposium 2014 technical program will go beyond the core methodology of TSP to encompass a broader range of complementary practices that contribute to peak performance on system and software projects. The unifying theme of the conference is quality. Ultimately, a quality product and service must be delivered on time and within budget, be secure, be sustainable, and provide value to end users.

TSP Symposium 2014 will offer 40-minute experience-report presentations, 90-minute participatory sessions, and full-day and half-day tutorials.



In addition to sessions covering the core methodology of TSP, this year the symposium will also address other aspects of long-term sustainable achievement. Specific topics related to software quality may include the following:

- Overcoming obstacles in introducing TSP
- Disciplined measurement practices
- Culture change
- The executive view
- Architecture
- Agile practices
- Testing
- Security
- Personal Software Process (PSP) and TSP in academics

For more information and to register, please visit www.sei.cmu.edu/tpsymposium/2014/.

SEI Job Listings

Interested in joining the SEI? Below are a few recent employment opportunities. For more job listings and full position descriptions, check out the [SEI Careers page](#).

[Project Manager](#)

[Chief Scientist: Emerging Technology Center](#)

[More job listings...](#)



Training

Upcoming Classes:

August 13-14, 2014 (Pittsburgh, PA):
[Software Product Lines](#)

August 18-22, 2014 (Pittsburgh, PA):
[Advanced Incident Handling](#)

SEI eLearning Course:

[Data Rights and DoD Acquisition](#)

New Registration Portal

SEI Training has recently upgraded to a robust registration portal. The new portal provides simple and secure online access to course registration payments, a purchase history, confirmation letters, and receipts.

To view a video demo of the new SEI Registration Portal, please visit:

<http://www.sei.cmu.edu/training/registration/>

[More SEI training opportunities...](#)



Software Engineering Institute, Carnegie Mellon University

1-888-201-4479

[Join Our Mailing List!](#)

The SEI is a great place to pursue your passion. Headquartered in Pittsburgh, Pa., the SEI also has offices in the Washington, DC, and Los Angeles, Calif., metropolitan areas. Interested in [working for the SEI](#)? Visit our [Careers page](#).



June 18, 2014 |

| [Careers @ SEI](#)

The *SEI Bulletin* is a biweekly newsletter designed to keep you up to date on SEI news, events, research, and other matters of interest to the SEI community. Because of your past participation as an SEI member, you have been automatically subscribed to receive the *SEI Bulletin*. Should you not wish to continue receiving the *Bulletin*, you may unsubscribe with [SafeUnsubscribe](#). We hope you find the *SEI Bulletin* useful and informative.

Send Us Your Story

Do you have a story about how an SEI technology has positively affected your team or organization? If so, the SEI would like to hear about it. Send a short summary of your success to info@sei.cmu.edu and you could be featured in a future issue of the *SEI Bulletin*.

In This Issue

- [SEI to Host 11th ACE Educators Workshop](#)
- [SEI Podcast Series: Applying Agile in the DoD: Sixth Principle](#)
- [CERT Podcast Series: Characterizing and Prioritizing Malicious Code](#)
- [SEI Blog: Architecture Analysis Using AADL: A Beginner's Perspective](#)
- [TSP Symposium 2014](#)
- [SEI Jobs](#)
- [Training Opportunities](#)

News: SEI to Host 11th ACE Educators Workshops

From August 4 to 6, 2014, educators from leading institutions will gather at the SEI's Pittsburgh headquarters for the 11th annual Architecture-Centric Engineering (ACE) Workshop for Educators. The SEI hosts this annual event to foster an ongoing exchange of ideas among educators whose curricula include the subjects of software architecture and software product lines. The event is free of charge and open to any accredited, college-level educator.

[Learn more about the workshop and how to participate.](#)



Also in the news:

- [Insider Threat Center to Offer New Insider Threat Program Manager Certificate](#)
- [2013 SEI Year in Review Available for Download](#)
- [CERT Guide to Insider Threat Named a Must-Read Cybersecurity Book](#)
- [SEI Director Nielsen Selected for PBT Diamond Award](#)

SEI Podcast Series: Applying Agile in the DoD: Sixth Principle

In this episode, the sixth in a series by Suzanne Miller and Mary Ann Lapham exploring the application of Agile principles in the Department of Defense, the two researchers discuss the application of the sixth principle. The most efficient and effective method of conveying information to and within a development team is face-to-face conversation.

[Listen to the podcast.](#)



Mary Ann Lapham
(top) and Suzanne
Miller

CERT Podcast Series: Characterizing and Prioritizing Malicious Code

"Every day, major anti-virus companies and research organizations are inundated with new malware samples. Although estimates vary, approximately 150,000 new malware strains are released each day. Not enough manpower exists to manually address the volume of new malware samples that arrive daily in analysts' queues. Malware analysts need an approach that allows them to sort samples in a fundamental way so they can assign priority to the most malicious binary files."

In this podcast, Jose Morales, a malicious-software researcher with the CERT Division, discusses an approach for prioritizing malware samples, helping analysts to identify the most destructive malware to examine first, based on the binary file's execution behavior and its potential impact.

[Listen to the podcast.](#)



Julia Allen (top) and
Jose Morales

SEI Blog: Architecture Analysis Using AADL: A Beginner's Perspective

A previous post in our ongoing series on the Architecture Analysis and Design Language (AADL) described the use of AADL in research projects (such as System Architectural Virtual Integration [SAVI]) in which experienced researchers explored the language capabilities to capture and analyze safety-critical systems from different perspectives. These successful projects have demonstrated the accuracy of AADL as a modeling notation.



Julien Delange

[This blog post presents research conducted independently of the SEI that aims to evaluate the safety concerns of several unmanned aerial vehicle \(UAV\) systems using AADL and the SEI safety analysis tools implemented in OSATE.](#)

Events: TSP Symposium 2014

The Team Software Process (TSP) Symposium will be held in Pittsburgh, Pennsylvania, November 3-6, 2014.



The TSP Symposium 2014 technical program will go beyond the core methodology of TSP to encompass a broader range of complementary practices that contribute to peak performance on system and software projects. The unifying theme of the conference is quality. Ultimately, a quality product and service must be delivered on time and within budget, be secure, be sustainable, and provide value to end users.

TSP Symposium 2014 will offer 40-minute experience-report presentations, 90-minute participatory sessions, and full-day and half-day tutorials.

In addition to sessions covering the core methodology of TSP, this year the symposium will also address other aspects of long-term sustainable achievement. Specific topics related to software quality may include the following:

- Overcoming obstacles in introducing TSP
- Disciplined measurement practices
- Culture change
- The executive view
- Architecture
- Agile practices
- Testing
- Security
- Personal Software Process (PSP) and TSP in academics

For more information and to register, please visit www.sei.cmu.edu/tpsymposium/2014/.

SEI Job Listings

Interested in joining the SEI? Below are a few recent employment opportunities. For more job listings and full position descriptions, check out the [SEI Careers page](#).

[Software Developer](#)

[Chief Scientist: Emerging Technology Center](#)

[More job listings...](#)



Training

Upcoming Classes:

July 22-24, 2014 (Pittsburgh, PA):

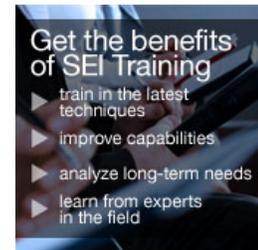
[Advanced Forensic Response and Analysis](#)

August 13-14, 2014 (Pittsburgh, PA):

[Software Product Lines](#)

SEI eLearning Course:

[Data Rights and DoD Acquisition](#)



New Registration Portal

SEI Training has recently upgraded to a robust registration portal. The new portal provides simple and secure online access to course registration payments, a purchase history, confirmation letters, and receipts.

To view a video demo of the new SEI Registration Portal, please visit:

<http://www.sei.cmu.edu/training/registration/>

[More SEI training opportunities...](#)

Software Engineering Institute, Carnegie Mellon University

1-888-201-4479

[Join Our Mailing List!](#)

The SEI is a great place to pursue your passion. Headquartered in Pittsburgh, Pa., the SEI also has offices in the Washington, DC, and Los Angeles, Calif., metropolitan areas. Interested in [working for the SEI](#)? Visit our [Careers page](#).