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News: SEI Hosts 12th Annual ACE Workshop for Educators

Software engineering educators gathered August 3-5 at the SEI's Pittsburgh headquarters for the 12th annual Architecture-Centric Engineering (ACE) Workshop for Educators. The SEI hosts this event to foster an ongoing exchange of ideas among educators whose curricula include the subjects of software architecture and software product lines. The SEI's Grace Lewis and Robert Nord led the workshop, which was attended by 16 educators representing institutions located in the United States, Canada, Mexico, Peru, and Thailand.

[Learn more about ACE 2015](#).

Also in the news:

- [CERT Division Hosts High School Cybersecurity Competition](#)
- [SEI Makes KD-Cloudlet Software Freely Available](#)
- [SEI Contract Renewed by Department of Defense for $1.73 Billion](#)
- [SEI Hosts Crisis Simulation Exercise for Cyber Intelligence Research Consortium](#)
- [SEI Improves Access to Open-Source Tools and Establishes Home on GitHub](#)

SEI Podcast Series: Designing Security Into Software-Reliant Systems

As organizations become more dependent on software, security-related risks to their organizational missions are also increasing. Traditional security-

engineering approaches rely on addressing security risks during the operation and maintenance of software-reliant systems. However, the costs required to control security risks increase significantly when organizations wait until systems are deployed to address those risks. It is more cost effective to address software security risks as early in the lifecycle as possible. To address this issue, researchers from the CERT Division of the Software Engineering Institute (SEI) have started investigating early lifecycle security risk analysis. In this podcast, CERT researcher Christopher Alberts introduces the Security Engineering Risk Analysis (SERA) Framework, a systematic approach for analyzing complex security risks in software-reliant systems and systems of systems early in the lifecycle. The framework integrates system and software engineering with operational security by requiring engineers to analyze operational security risks as software-reliant systems are acquired and developed. Initial research activities have focused on specifying security requirements for these systems.

Christopher Alberts

Listen to the podcast.

SEI Blog: DevOps for Contractors

The challenges of DevOps--a cultural change, learning new technologies, and making a big-picture impact for a software project team--are possibly even more challenging in contract work. In this blog post, the SEI's Tim Palko expands on some of his past experiences as a contract software developer and discusses, in retrospect, how DevOps could have worked in different scenarios.

Tim Palko

Read the post.

Events: Software Solutions Conference, November 16-18, 2015

On November 16-18, 2015, the Carnegie Mellon Software Engineering Institute (SEI) will host its first Software Solutions Conference (SSC) in Crystal City, Va. The conference is designed to increase attendees' awareness of emerging technologies and technical strategies for assuring quality, timeliness, trust, and affordability in current and future software-reliant systems.

In addition to talks by leading experts in the field of software engineering, the conference will provide a forum for networking and participation outside of formal sessions and for influencing the SEI research agenda. The SEI is a federally funded research and development center at Carnegie Mellon University dedicated to helping government and industry organizations acquire, develop, operate, and sustain software systems that are affordable, enduring, and trustworthy.

Learn more and register.

Events: Nominations Sought for 2016 IEEE/SEI Watts S. Humphrey Award

Nominations are now open for the 2016 IEEE Computer Society/SEI Watts S. Humphrey Software Process Award (SPA). Since 1994, the SEI and the Institute of Electrical and Electronics Engineers (IEEE) Computer Society

have cosponsored the award, which recognizes outstanding achievements in improving an organization's ability to create and evolve high-quality software-dependent systems.

Nominations must be submitted by October 15, 2015.

Achievements recognized by the Watts S. Humphrey Award can be the result of any type of process-improvement activity. They need not have been based on a specific framework, model, or body of software engineering principles, practices, techniques, or methods.

Read more and learn how to submit your nomination.
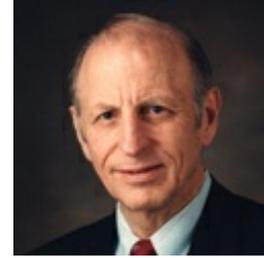
Watts Humphrey

SEI Jobs

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? Below are a few recent employment opportunities. For more job listings and full position descriptions, check out the SEI Careers page.

Cyber Security Engineer - Exercise Developer

Associate Cybersecurity Researcher

Software Developer

More job listings...

Training

Upcoming Classes:

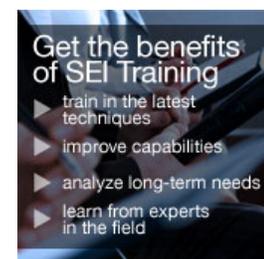**October 5-9, 2015 (Arlington, Va.)**
Fundamentals of Incident Handling

October 5-9, 2015 (Pittsburgh, Pa.)
Personal Software Process (PSP) Advanced

SEI eLearning:
Big Data Architectures and Technologies

New Course Offering in December:

December 1-2 (Arlington, Va.)
Measuring What Matters: Security Metrics Workshop

Registration Portal
SEI Training has a robust registration portal that provides simple and secure online access to course registration payments, a purchase history, confirmation letters, and receipts.

To view a video demo of the 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

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About the SEI Bulletin
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. 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.