SATURN 2008

Fourth SEI Software Architecture Technology User Network Workshop
April 28 – May 1, 2008 | Pittsburgh, Pennsylvania

Software Engineering Institute
CarnegieMellon

Welcome to the Fourth SEI Software Architecture Technology User Network Workshop

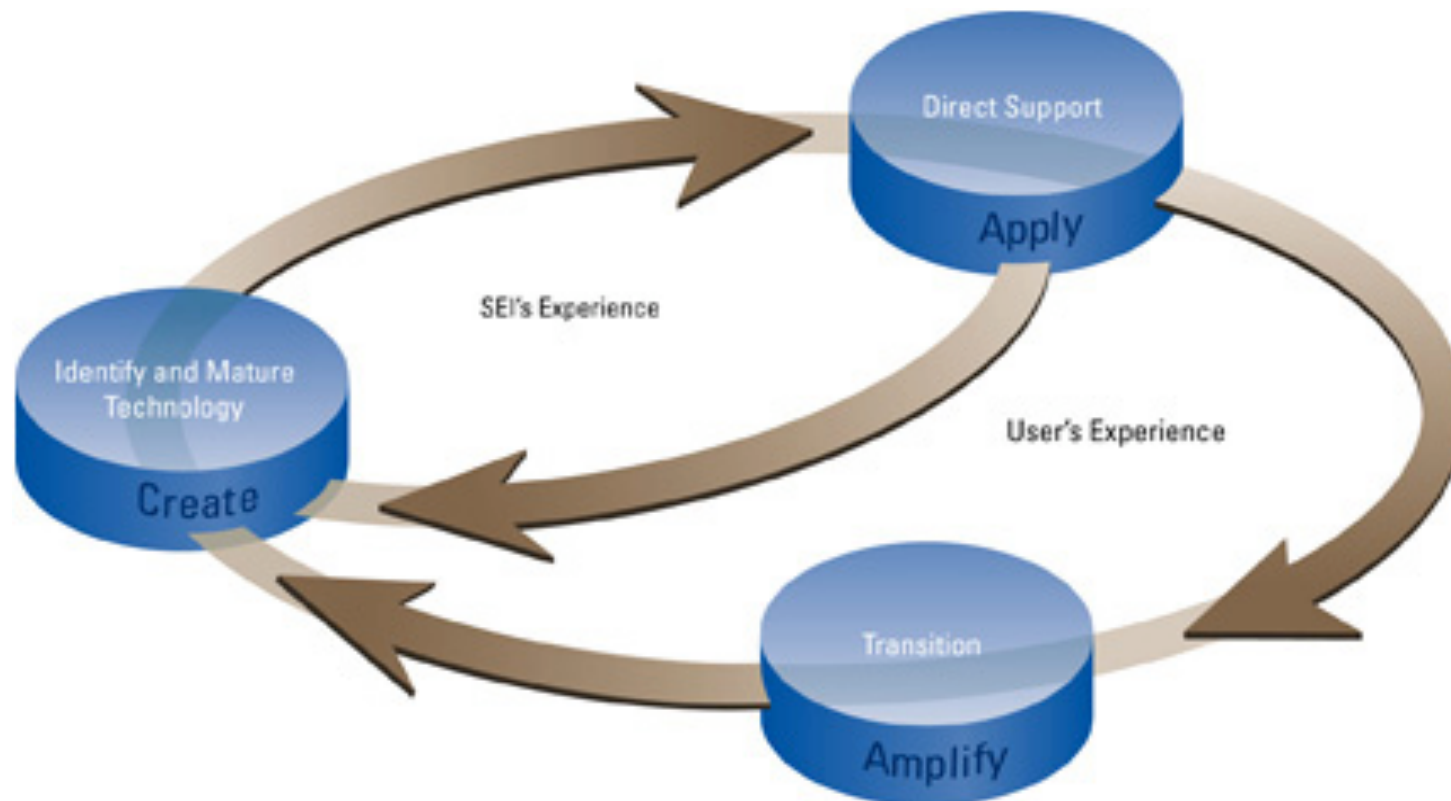# Software Engineering Institute

Established in 1984 as a federally funded research and development center operated by Carnegie Mellon University

Offices in 5 locations:

- Pittsburgh, PA;

- Colorado Springs, CO;

- Frankfurt, Germany;

- Los Angeles, CA;

- Washington, DC

SEI's Strategic Functions

The SEI advances software engineering and related disciplines to ensure the development and operation of systems with predictable and improved cost, schedule, and quality.

SEI Technical Programs and Initiatives

Acquisition Support Program

Dynamic Systems Program

- Integration of Software-Intensive Systems (ISIS)
- Performance-Critical Systems (PCS)

Product Line Systems Program

- Software Architecture Technology (SAT)
- Predictable Assembly from Certifiable Components (PACC)
- Product Line Practice (PLP)

Software Engineering Process Management Program

- Capability Maturity Model Integration (CMMI)
- Software Engineering Measurement and Analysis (SEMA)
- Team Software Process (TSP)

Networked Systems Survivability Program

- CERT Coordination Center
- Survivable Enterprise Management
- Survivable Systems Engineering

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SATURN Goals

Share experiences using SEI software architecture technology tools, methods and practices.

Jointly discuss ideas, issues, and needs with regard to software architecture practices.

Grow a network of those interested in using and improving software architecture practices.

Highlights from SATURN 2005 - 2007

Peer collaboration

Shared understanding

SEI technical staff presence

Exploring case studies

Developing metrics that measure benefits

Learning what is new in software architecture

Agenda: Courses & Tutorials

April 28-29, courses from the Software Architecture Curriculum

      Software Architecture Principles and Practices

      Documenting Software Architecture

April 29, tutorials

T1: Predictability by Construction

Kurt Wallnau, Gabriel Moreno, Scott Hissam, SEI, Pittsburgh, PA

T2: Software Architectural Knowledge = Architectural Design Decisions + Architectural Design

Philippe Kruchten, University of British Columbia, Vancouver BC

T3: Pattern-Oriented Software Architecture: A Pattern Language for Distributed Computing

Douglas Schmidt, Vanderbilt University, Nashville, TN

T4: Information Systems Architecture: Stakeholders, Viewpoints and Perspectives

Eoin Woods, Barclays Global Investors

T5: Integrating Architecture-Centric Methods into Object-Oriented Analysis and Design

Raghvinder Sagwan, Pennsylvania State University, State College, PA

T6: Evaluating a Service-Oriented Architecture

Paulo Merson, Phil Bianco, SEI, Pittsburgh, PA
Rick Kotermanski, Summa Technologies, Pittsburgh, PA

Agenda: Workshop, April 30 – May 1, 2007

Keynotes

- On Software Architecture, Agility, Cost and ValueAn Architecture Journey

    – **Philippe Kruchten**, Professor of Software Engineering, Department of Electrical and Computer Engineering, University of British Columbia, Vancouver, Canada

- Putting Software Architecture in its Place - Fitting Software Architecture Into the Enterprise Technology Landscape

    – **Eoin Woods**, Software and Enterprise Architect, Barclays Global Investors

Experience reports, SEI reports, panel discussing architecture issues from managers perspective

Interactive working sessions lead by SEI technical staff

- **W1: Architecture-Based System Evolution**

- **W2: System and SoS Architecture Evaluation**

- **W3: Architect's Dilemma for the Bazaar**

Agenda: Evening Events

Tuesday, April 29 Welcome Reception 5:00 – 7:00 PM

Wednesday, April 30 Workshop Dinner 6:30 – 8:00 PM

Keystone Corner at PNC Park

Buses will run between the hotel and Keystone Corner starting at 6:15 PM

Before you leave

Please fill in the evaluation forms and give us feedback!

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