Conference Agenda

Sponsored by:

The National Defense Industrial Association
Systems Engineering Division
in conjunction with the
Software Engineering Institute,
Carnegie Mellon University

Event #5110
November 15 - 18, 2004
Hyatt Regency Tech Center
Denver, CO
Announcement:

The Systems Engineering Division of the National Defense Industrial Association, in conjunction with the Software Engineering Institute, Carnegie Mellon University, is pleased to announce the Fourth Annual CMMI® (Capability Maturity Model® Integration) Technology Conference and User Group. This important conference will be held November 15-18, 2004, at the Hyatt Regency Tech Center, Denver, Colorado. The purpose of the conference is to bring together the users, adopters, and developers of Capability Maturity Models and those involved in Internal Process Improvement, to exchange ideas, concepts, and lessons learned concerning maturity models and appraisal (assessment and evaluation) methods. The conference will also provide a forum for the free exchange of ideas and implementation methodology for CMMI, and will afford a unique opportunity to meet with the sponsors, developers, and stewards of CMMI, as well as those offering CMMI training and implementation assistance. Emphasis will be placed on CMMI implementation methodology and strategies, return on investment and benefits, and transitioning from SW-CMM® and EIA/IS-731 to CMMI.

Background:

The CMMI Project is a cooperative effort of the Department of Defense, Industry, and the Software Engineering Institute to develop an integrated Capability Maturity Model that encompasses Systems Engineering, Software Engineering, Integrated Product & Process Development, and Supplier Sourcing. Even though sponsored by the Department of Defense and NDIA, it is intended for use by commercial as well as aerospace/defense organizations, and this Conference will address all applications. The purpose of the Project is to provide for improvements in cost, schedule, and overall quality of programs in engineering development and production by causing integration of the various engineering and related disciplines. CMMI will reduce costs to implement internal process improvement, including appraisals (assessments & evaluations), and provide a common baseline and lexicon for process improvement.

Conference Objectives & Topics:

This conference will bring together the managers and professionals involved in Systems Engineering, Program Management, Software Development, Process Improvement, Six Sigma, and related activities for the purpose of advancing the state-of-the-art process improvement and achieving a higher state of maturity in engineering development in order to reduce cost, schedule & risk and improve overall quality. Participating organizations are defense, aerospace, and commercial companies, SW-CMM and CMMI Transition Partners, Department of Defense organizations, small companies specializing in software and systems engineering development, tools, and processes, and other government agencies. The common appraisal and evaluation method (SCAMPISM) will be discussed, and we will also be providing focus on implementing a systems approach to software development.

Topics that will be covered are:

- Benefits/ROI of CMMI
- Process Improvement via CMMI
- CMMI Transition Strategies
- SW-CMM Sunset Implications
- SW-CMM to CMMI
- SECM to CMMI
- CMMI Implementation Strategies
- CMMI Implementation “Lessons Learned”
- Transition Partner Services
- Class “B” and Class “C” Appraisal Methodology

Plus implementation detail covering such items as project management, software engineering, systems engineering, measurement and metrics, life cycle considerations, software maintenance, CMMI-ISO considerations, systems acquisition, supply chain management, and configuration & data management.
### Sunday, November 14, 2004

Noon - 4:00 p.m.  Registration for Tutorial and Conference  

Atrium

### Monday November 15, 2004

7:00 a.m.  - Tutorial Onsite Registration ($150 Tutorial Fee)  

Atrium

7:00 a.m.  - Continental Breakfast (Tutorial Attendees Only)  

8:00 a.m.

2:00 p.m.  - CMMI Conference Onsite Registration Open  

Atrium

6:30 p.m.

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### CMMI Tutorial Tracks

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- **Session A**  
  - Introduction to Systems Engineering  
    - Mr. Tim Kasse, Kasse Initiatives
  - Balancing Agility & Discipline  
    - Mr. Rich Turner, OUSD (AT&L)
  - A TSP Primer for the CMMI Literate  
    - Mr. James McHale, Software Engineering Institute
  - CMMI SCAMPI Distilled  
    - Mr. Aaron Clouse, Raytheon Company
  - Calculating CMMI-based ROI: How, What, When and Why?  
    - Mr. Rolf Reitzig, cognenceinc
  - CMMI Business Case Analysis  
    - Mr. Jeffrey Dutton, Jacobs Sverdrup
  - Process Development Tutorial  
    - Mr. Bob Raczynski, Lockheed Martin

- **Session B**  
  - Introduction to Systems Engineering  
    - Mr. Tim Kasse, Kasse Initiatives
  - Balancing Agility & Discipline  
    - Mr. Rich Turner, OUSD (AT&L)
  - A TSP Primer for the CMMI Literate  
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  - CMMI Business Case Analysis  
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  - Process Development Tutorial  
    - Mr. Bob Raczynski, Lockheed Martin

- **Session C**  
  - Introduction to Systems Engineering  
    - Mr. Tim Kasse, Kasse Initiatives
  - Adopting CMMI for Small Organizations  
    - Ms. Sandra Cepeda, Cepeda System & Software Analysis, Inc.
  - CMMI Acquisition Module  
    - Mr. Brian Gallagher, Software Engineering Institute
  - CMMI-Based Appraisals: A Workshop on Using The Family of SCAMPI Appraisal Methods  
    - Mr. Will Hayes, Software Engineering Institute
  - Moving from the SW-CMM® to CMMI®  
    - Mr. Ralph Williams, Coolimon, LLC
  - Coordinating Models and Metrics to Support Better Management Decisions Using Simulation  
    - Dr. David Raffo, Portland State University
  - Managing Technical People  
    - Mr. Girish Seshagiri, Advanced Information Services Inc.

- **Session D**  
  - Introduction to Systems Engineering  
    - Mr. Tim Kasse, Kasse Initiatives
  - Adopting CMMI for Small Organizations  
    - Ms. Sandra Cepeda, Cepeda System & Software Analysis, Inc.
  - CMMI Acquisition Module  
    - Mr. Brian Gallagher, Software Engineering Institute
  - CMMI-Based Appraisals: A Workshop on Using The Family of SCAMPI Appraisal Methods  
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    - Dr. David Raffo, Portland State University
  - Managing Technical People  
    - Mr. Girish Seshagiri, Advanced Information Services Inc.

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### LUNCHEON (12:00 p.m.) (Tutorial Attendees Only)

- **Session A**  
  - Introduction to Systems Engineering  
    - Mr. Tim Kasse, Kasse Initiatives
  - Adopting CMMI for Small Organizations  
    - Ms. Sandra Cepeda, Cepeda System & Software Analysis, Inc.
  - CMMI Acquisition Module  
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    - Dr. David Raffo, Portland State University
  - Managing Technical People  
    - Mr. Girish Seshagiri, Advanced Information Services Inc.

### BREAK - Atrium (9:45 a.m.)

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### BREAK - Atrium (2:45 p.m.)

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### OPENING RECEPTION IN DISPLAY AREA - Atrium (5:30 p.m. - 6:30 p.m.)
### Continental Breakfast/Registration

**Session A:**

**8:15 a.m.** Welcome & Opening Remarks:
- **Mr. Sam Campagna**, Director, Operations, NDIA
- **Mr. Bob Rassa**, Director, System Supportability, Raytheon; Chair, Systems Engineering Division, NDIA

**8:30 a.m.** Keynote Address
- **Maj Gen Paul D. Nielsen, USAF (Ret)**, Director, Software Engineering Institute

**9:10 a.m.**

**Session B:**
- **CMMI Into the Future**
- **Mr. Bob Rassa**, Raytheon, CMMI Project Co-Chair
- **Mr. Clyde Chittister**, Chief Operating Officer, Software Engineering Institute

**9:45 a.m.**

Break/Displays Open

**10:15 a.m.** Executive Plenary Panel

**Moderator:**
- **Dr. Barry Boehm**, University of Southern California

**Panel Members:**
- **Ms. Linda Mills**, VP, Mission Assurance, Northrop Grumman Mission Systems
- **Dr. John Tracy**, VP, Engineering, Boeing Integrated Defense Systems
- **Dr. Arthur Pyster**, Senior VP and Director of Systems Engineering and Integration, SAIC Federal Systems
- **Mr. Ron Paulson**, VP, Engineering, Lockheed Martin Corporation

**Topic:** Role of CMMI in Mission Assurance

### CMMI TECHNOLOGY TRACKS

| Track 1 | Grand Mesa F | CMMI and Process Improvement |
| Track 2 | Grand Mesa D-E | Practical Guidance |
| Track 3 | Chasm Creek | Appraisals |
| Track 4 | Highlands | Return on Investments |
| Track 5 | Mesa Verde | High Maturity |
| Track 6 | Wind River | CMMI Extensions |
| Track 7 | Wind Star | CMMI for Small Projects and Organizations |

**Session C:**

**1:30 p.m.**

- **Coordinating Process Improvement in Multiple Geographically Dispersed Development Organizations Using CMMI**
  - **Mr. Brian Groarke**, SSG San Diego

**2:00 p.m.**

- **The Ten Most Common Excuses for Not Engaging in Process Improvement - and What to Do About It!**
  - **Mr. Brian Groarke**, SSG San Diego

- **Coordinating Process Improvement in Multiple Geographically Dispersed Development Organizations Using CMMI**
  - **Mr. Brian Groarke**, SSG San Diego

**2:30 p.m.**

- **Using Continuous Models as Dynamic and Specific Staged Models for Process Improvement**
  - **Mr. Claudio Salviano**, CenPRA

### BREAK - Atrium (3:00 p.m.)

### Session D:

**3:30 p.m.**

- **The Explicit Relationship Between CMMI and Project Risks**
  - **Mr. Warren Scheinim**, Northrop Grumman Mission Systems

**4:00 p.m.**

- **Tool to Facilitate CMMI Appraisal Preparation, Collaboration and Execution**
  - **Mr. Wesley Sweetser**, NASA

**4:30 p.m.**

- **Measuring the Economic ROI and Benefits of CMMI-Based Improvements in Private Industry**
  - **Dr. Aldo Dagnino**, ABB, Inc.

### Reception in Display Area - Atrium (5:30 p.m. - 7:00 p.m.)

**7:30 a.m.** Luncheon:
- **Mr. John Grimm**, Vice President, Engineering, Raytheon Intelligence & Information Systems

**Topic:** Role of CMMI in Mission Assurance

**Grand Mesa A,B,C**
### Continental Breakfast - Atrium (7:00 a.m. - 8:00 a.m.)

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<td>Tools for Decision Analysis and Resolution Dr. Richard Stutzke, SAIC</td>
<td>How to Develop Highly Usable CMMI® Documentation Mr. Ralph Williams, Coolimon, LLC</td>
<td>Summarizing Lessons from Piloting SCAMPI B and SCAMPI C Mr. Will Hayes, Software Engineering Institute</td>
<td>Lockheed Martin Benefits Continue Under CMMII® Process Improvement Mr. J. M. Perry, United Defense</td>
<td>Lockheed Martin Corporation</td>
<td>The CMMII Framework and the Enterprise - Adapting or Extending Mr. Joseph Duquette, The MITRE Corporation</td>
<td>Organizational Process Directives - One Size Fits All Mr. Kenneth Weinberg, Raytheon</td>
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### Break - Atrium (9:45 a.m.)

**Luncheon: Mr. Mark Schaeffer, Principle Deputy, DS/SE, OUSD (AT&L)/DS**

### Continental Breakfast - Atrium (7:00 a.m. - 8:00 a.m.)

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<td>CMMII for Small Projects and Organizations</td>
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<td>Synergy Beyond Expectations - Integrated Engineering Processes Ms. Sally Cheung, Raytheon</td>
<td>How to Define CMII Based Processes That are Short and Usable, Mr. Tim Olson, Quality Improvement Consultants, Inc.</td>
<td>A Universal Classification System for CMMII Artifacts Mr. Thomas Cowles, Raytheon Space and Airborne Systems</td>
<td>Impacts of Using the SEI CMMI and CMII Models for Software Process Improvement Mr. Michael Diaz, General Dynamics</td>
<td>From Here (SW-CMMI) to There (CMMII) in a Large Organization Ms. Cheryl Bickey, IBM Global Services</td>
<td>Software Reliability, Maintainability, Supportability and Quality - A CMMII Based Approach Dr. Thomas Christian, Jr., WR-ALCMAS</td>
<td>Small Project Adoption of CMMII Mr. James Young, Munitions History Program, Redstone Arsenal</td>
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<td>Tips for Leveraging Enterprise Process Optimization (CMII - SMML®) with Strategic Planning Dr. Mary Anne Herndon, SAIC</td>
<td>Decision Analysis and Resolution: Can This Process Area Really Be Used Across Organizations and Disciplines? Mr. Gary Norausky, Norausky Process Solutions, Inc.</td>
<td>Lessons Learned in Establishing an Appraisal/Artifact Collection Method, Ms. Julie Schmarje, Raytheon</td>
<td>CMII in Investment Banking ROI and Benefits Mr. James Tower, JPMorgan Chase Investment Bank</td>
<td>A Smooth Transition From SW-SSM to CMMII Mr. Richard Basque, Alyconix</td>
<td>Difference Between a Project Manager and a Systems Engineer Mr. Timothy Davis, Raytheon</td>
<td>SCAMPI A Applied to Small Settings - A Success Story Ms. Sandra Cepeda, Cepeda Systems &amp; Software Analysis, Inc.</td>
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<td>6-Sigma Panel/Tools</td>
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**BREAK - Atrium (3:00 p.m.)**

- CMMI Overview for Executives
  - Ms. Sandy Shrum
  - Software Engineering Institute

- Understanding Model Representation and Leviers: What Do They Mean?
  - Ms. Mary Beth Chrisis
  - Software Engineering Institute

- Gotting Started with CMMI-Based Process Improvement
  - Ms. Sandy Shrum
  - Software Engineering Institute

- Improvements to the CMMI Training Programs Managed at the SEI
  - Ms. Barbara Tyson
  - SEI

**Continental Breakfast BREAK - Atrium (7:00 a.m. - 8:00 a.m./Registration**

- **Track 1**
  - Grand Mesa F
  - CMII and Process Improvement

- **Track 2**
  - Grand Mesa D-E
  - Practical Guidance

- **Track 3**
  - Chasm Creek
  - Appraisals

- **Track 4**
  - Highlands
  - Metrics

- **Track 5**
  - Mesa Verde
  - Transitioning to CMMI

- **Track 6**
  - Wind River
  - Systems Engineering

- **Track 7**
  - Wind Star
  - Tools

**BREAK - Atrium (9:45 a.m.)**

- Integrating CMMI®, TSP®, and Change Management Principles to Accelerate Process Improvement
  - Ms. Julie Switzer
  - Raytheon

- Achieving System and Software Assurance Through CMMI-Compliant Processes
  - Mr. Paul Croll
  - CSC

Thursday, November 18, 2004

**Track 1**
- Grand Mesa F
- CMII and Process Improvement

**Track 2**
- Grand Mesa D-E
- Practical Guidance

**Track 3**
- Chasm Creek
- Appraisals

**Track 4**
- Highlands
- Metrics

**Track 5**
- Mesa Verde
- Transitioning to CMMI

**Track 6**
- Wind River
- Systems Engineering

**Track 7**
- Wind Star
- Tools

**BREAK - Atrium (9:15 a.m.)**

- Less is, in fact, More! - 60% Paper Reduction Using an Enterprise-Wide Process Framework
  - Mr. Ralph Porter
  - General Dynamics

- How Isn’t Someone Coding Yet (WISCY)? - Avoiding Ineffective Requirements
  - Ms. Charlen Gross
  - Software Engineering Institute

- Automated Monitoring of Process Compliance
  - Mr. Gaye Natwick
  - Harris Corporation

- Why Isn’t Everything Statistically Tantalizing (WEST)? or How the WEST Was Won
  - Mr. Michael Post
  - CAE USA, Inc., Marine Systems

- Transforming a Level 5 Software Process into an Integrated Engineering Process
  - Mr. Bruce Boyd
  - The Boeing Company

- A Process-Oriented (Practical) Approach to Program Office Systems Engineering Management Using the CMMI-AM as a Guide
  - Mr. A Fred Schenker
  - Software Engineering Institute

**Luncheon (12:00 p.m.)**

- A Contributors Only Workshop (By Invitation Only)
  - Mr. Geoff Draper
  - Harris Corporation

- Improving Your CMMI Implementation: Through Automation and CMMI
  - Ms. Jeffifer Simmons
  - Integrated System Diagnostics

- Organizational Training and Competency Development - L-3 University’s Learning Management System Enables CMMI® Best Practices
  - Mr. Robert Thornton
  - L-3 Communications, Integrated Systems

**Luncheon (12:00 p.m.)**

- Taking Charge of Your CMMI Implementation: Through Automation
  - Ms. Jeffifer Simmons
  - Integrated System Diagnostics