

6TH ANNUAL Software Process Symposium

Improving Software, Delivering Value.

October 13-14, 2008
The Pines Manor
Edison, New Jersey

For complete details, visit
www.spsymposium.com
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The logo for the Software Process Symposium features the word "SOFTWARE" in a bold, sans-serif font, with a red dot above the 'O' and a red dot above the 'E'. To the right of "SOFTWARE" is the word "PROCESS" in a smaller, bold, sans-serif font. Below "SOFTWARE" and "PROCESS" is the word "SYMPOSIUM" in a bold, sans-serif font.

**SOFTWARE PROCESS
SYMPOSIUM**

MONDAY, OCTOBER 13, 2008

7:15 am

REGISTRATION & CONTINENTAL BREAKFAST

TUTORIALS

8:00 am

Aligning Software Development Projects With Business Needs – A Simple & Effective Requirements Definition Methodology



Tarun Talwar, Mindspan Systems Inc

Making Process Improvement Work - A Concise Action Guide for Software Managers and Practitioners



Neil Potter, The Process Group

Rules of Engagement



Pat Ferdinandi, Strategic Business Decisions

Driving Software Process Improvement Through System Testing



Nathan Petschenik, STS Consulting.

Agile Project Management



Chris Sims, Technical Management Institute.

10:30 am

BREAK

12:30 pm

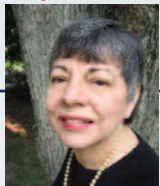
LUNCH

The Recursive Nature of Requirements Development



Tim Kasse, Kasse Initiatives LLC

PPQA Role in Analyzing & Evaluating Metrics Programs



Lori M. Gottshall, Software Management Solutions, Inc

Effective Project Retrospectives and Intuitive Risk Management



F. Michael Dedolph, Computer Sciences Corporation

Software Cost Estimating Fundamentals



Joseph Ingemi, Price Systems, L.L.C.

Combining RUP and Agile in software development

Michael Kaufman, Advanced Business Automation & Palani Enterprises

3:00 pm

BREAK

5:00 pm

ADJOURN

C O N F E R E N C E C O M M I T T E E

Thank you to the symposium speakers committee for their effort in bringing you this year's program. The following are the committee's team members:



George Mitwasi, chair
Software Management Solutions



Joseph Billi
Automatic Data Processing



Ken Dymond
Process Transition International



Ellen George
PS&J Software Six Sigma



Chad Haggerty
Philadelphia Software Process Improvement Network



Anthony Hutchings
New York City Software Process Improvement Network



Don O'Neill
Center for National Software Studies



Margie Ojeda
North Jersey Software Process Improvement Network



Pat O'Tool
PACT

T U E S D A Y , O C T O B E R 1 4 , 2 0 0 8

7:00 am

REGISTRATION & CONTINENTAL BREAKFAST IN THE EXHIBIT HALL

GENERAL SESSION

7:50 am

WELCOME REMARKS, LOGISTICS, SPONSOR THANKS

8:10 am

THE IMPACT OF WEB 2.0 ON THE SOFTWARE DEVELOPMENT COMMUNITY
Ed Yourdon, Author

TRACKS	CMMI & PROCESS IMPROVEMENT I	CMMI & PROCESS IMPROVEMENT II	AGILE	MEASUREMENTS & ESTIMATION	ORGANIZATIONS & PEOPLE
9:20 am	EXECUTION - the key to success! The Top 10 Steps for Achieving Successful Institutionalization of Processes and Tools <i>John L Voss, Accenture</i>	CMMI on the Web v1.2 <i>Shane McGraw & Deen Blash, Software Engineering Institute</i>	Agile 101: An Introduction and Overview <i>Chris Sims, Technical Management Institute</i>	Analyzing Defects Can Tell a LOT About a Company <i>Diane Mizukami-Williams, Northrop Grumman Corporation</i>	Diane Mizukami-Williams, Northrop Grumman Corporation <i>William C McKnight, Next Level Consultants</i>

10:00 am

BREAK IN THE EXHIBIT HALL

10:30 am	Team for Success: Process Engineering and Quality Assurance <i>Sharon E. Miller, L3 Communications Command & Control Systems and Software/LEX Sector</i>	CMMI® Maturity Levels, Not Acting Your Age and Erosion of Continuity - Causes and Cures <i>Ken Dymond, Process Transition International, Inc</i>	Agile CMMI: Supercharging process performance Using agile Methods <i>Jeff Dalton, Broadsword Solutions Corporation</i>	How can we measure the value of IT? <i>Michael Harris, David Consulting Group</i>	From Grass Roots to Executive Enthusiasm - The Inside Job of Selling CMMI <i>Rob Donnellan, Q/P Management</i>
11:20 am	Extreme Auditing: Application of extreme programming in Auditing. A breakthrough in process experimentation in Nedbank <i>Reinier Olivier & Amol Tope, Nedbank Ltd</i>	Using Failure Mode and Effects Analysis (FMEA) to Assess Risks to the Global Enterprise due to Process/Application Changes <i>Vic Nanda, Motorola</i>	Mixing Oil With Water (CMMI meets eXtreme Programming) <i>Stephen Gristock, JPMorganChase / Independent Consultant</i>	The Evolution of Software Size : A Search for Value <i>Arlene F. Minkiewicz, PRICE Systems,LLC</i>	Improvement in Four Dimensions <i>John H. Maher, Jr., Organization & Process Improvement, Inc.</i>

12:00 pm

LUNCH , DESSERT IN EXHIBIT HALL- DRAWING FOR BOOK PRIZES

1:10 pm

THE ROLE OF SOFTWARE ARCHITECTURE IN SYSTEM DEVELOPMENT AND EVOLUTION
Linda Northrop, Director of the Product Line Systems Program, The Software Engineering Institute

TRACKS	SOFTWARE PROCESS IMPROVEMENT	CMMI	GENERAL TOPICS	GENERAL TOPICS	ORGANIZATIONS & PEOPLE
2:10 pm	Work On Your Engineering Business, Not In It. <i>Rolf Reitzig, cognence, inc</i>	Documentation Diet <i>Neil Potter, The Process Group</i>	Using Automated Frameworks to Facilitate Early and Frequent Testing <i>Steve Orlich & Denise Chester, Minitab Inc.</i>	Secure SDLCs Compared <i>Kenneth R. van Wyk, KRvW Associates, LLC</i>	Test Driven Architecture <i>Joseph N Frisina, BAE Systems</i>

2:50 pm

BREAK IN THE EXHIBIT HALL

3:20 pm	The Last Phase in Process Change - Deployment <i>Barbara A. Tyson, Software Engineering Group</i>	CMMI-SVC : Get Ready... Here it Comes <i>Craig Hollenbach & Marilyn Ginsberg-Finner, Northrop Grumman, and Eileen Forrester, Software Engineering Institute</i>	An introduction to ITIL V3 and its impact on software process <i>Richard Horwitz, BearingPoint</i>	Design of IT Release Management Process using Blended DMAIC & DFSS Methodology <i>Neeraj Katare & Dr.P. Chitimalla, Tata Consultancy Services Ltd</i>	Importance of Traceability to Design for White Box Testing <i>Alice C Brown, Haemonetics, Inc.</i>
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4:10 pm

PUTTING THE ENGINEERING IN SOFTWARE ENGINEERING: TECHNOLOGY INFRASTRUCTURE IN PROCESS IMPROVEMENT
Dr. Adam Kolawa, Co-founder and CEO of Parasoft

5:00 pm

ADJOURN

Presentation Abstracts

MORNING KEYNOTE SPEAKER

The Impact of Web 2.0 on The Software Development Community

Ed Yourdon, Author



8:10am - 9:10am: Software development processes and technologies have evolved and improved over the past couple decades; but they still tend to follow a traditional, top-down, hierarchical management style. But the recent appearance of Web 2.0 tools has begun to change not only the broad spectrum of interactions in business and society, but also the interactions and work-styles of developers, users, analysts, QA specialists, and other stakeholders in software development. Ed Yourdon's presentation will summarize these tools and trends, and will offer practical guidelines and suggestions for putting them to effective use for greater productivity, quality, and user satisfaction.

BIO: Ed Yourdon is a software consultant in his own firm, NODRUOY Inc., as well as co-founder and Senior Consultant of the Cutter Consortium, a software research/analysis firm. He has worked in the software field for approximately forty years, and has published 27 computer-related books and over 550 technical articles. Yourdon has programmed, designed, and tested numerous software applications and programmer-productivity products; has managed numerous projects as a first-level project leader and also as a senior IT executive; and has reviewed numerous software development projects for clients during his consulting career.

AFTERNOON KEYNOTE SPEAKER

The Role of Software Architecture in System Development and Evolution

Linda Northrop, Director, Product Line Systems Program, The Software Engineering Institute



1:10pm - 2:00pm - Quality software is software that is fit for its intended purpose. High quality software meets business goals and user needs, which means it has the right features and the right attributes. Building quality software requires using disciplined processes and a carefully designed software architecture. Software architecture forms the backbone for any successful software-intensive system. It is the first design artifact that addresses key quality attributes such as affordability, reliability, security, modifiability, and performance. It provides the most fundamental basis for communicating design decisions and establishing effective work breakdown structures. This talk highlights the importance of both software architecture and the disciplined use of effective architecture-centric practices.

BIO: Linda Northrop has more than 35 years of experience in software development as a practitioner, researcher, manager, consultant, and educator. She currently is director of the Product Line Systems Program at the SEI where she leads the work in software architecture, software product lines, and predictable software construction. Under her leadership, the SEI has developed software architecture and product line methods that are used worldwide, a series of five highly acclaimed books, and software architecture and software product line curricula. She recently led a year long study including leaders in the software community to define technical and social challenges to the creation of ultra-large-scale systems that will evolve in the next generation. Linda is a frequently invited speaker and has given keynotes at several internationally renowned conferences.

CLOSING KEYNOTE SPEAKER

Putting the Engineering in Software Engineering: Technology Infrastructure in Process Improvement

Dr. Adam Kolawa, Co-founder and CEO of Parasoft



4:10pm - 5:00pm - Based on the concepts described in his recently published book, Dr. Kolawa, will explain how to establish an automated technology infrastructure that supports effective software development. This infrastructure defines people roles, necessary technology, and interactions between people and technology. This infrastructure provides product visibility, automates repetitive tasks, tracks project status, and seamlessly collects project data to provide measures necessary for decision making. This infrastructure forms a software production line, thereby putting the engineering into software engineering. Most of all, by putting the engineering into software engineering this infrastructure sustains and facilitates the improvement of human-defined processes.

BIO: Dr. Adam Kolawa is the co-founder and CEO of Parasoft, a leading provider of Automated Error Prevention (AEP) software solutions. Kolawa's years of experience with various software development processes has resulted in his unique insight into the high-tech industry and the uncanny ability to successfully identify technology trends. As a result, he has orchestrated the development of several successful commercial software products to meet growing industry needs to improve software quality. Kolawa, co-author of *Bulletproofing Web Applications* (Hungry Minds 2001), has contributed to and written over 100 commentary pieces and technical articles for publications such as *The Wall Street Journal*, *CIO*, *Computerworld*, *Dr. Dobb's Journal*, and *IEEE Computer*; he has also authored numerous scientific papers on physics and parallel processing. His recent media engagements include CNN, CNBC, BBC, and NPR. Kolawa holds a Ph.D. in theoretical physics from the California Institute of Technology, and has been granted ten patents for his recent inventions. Dr. Kolawa is a co-author of "Automated Defect Prevention: Best Practices in Software Management."

"Excellent, practical & comprehensive compacted into one smooth, integrated day. Overall this is an excellent symposium! It was well run and put together. The three keynote speakers were outstanding!!!"
Jerry Kastning
Software Engineering Center

"The keynote speakers were fantastic - I learned a lot from them that I can bring back to my organization and job."
Diane Glaser
US Army C-E LCMC SEC

MORNING TUTORIALS:

Aligning Software Development Projects With Business Needs – A Simple & Effective Requirements Definition Methodology

Tarun Talwar, Mindspan Systems Inc

The number of software projects that fail due to poor requirements definition is staggering. The need for methodical requirements specification is underscored by a basic fact - if a project team does not do a good job of identifying what is needed, it will not be able to deliver the desired results no matter how skilled it is in the how part (the technical know-how). This tutorial will introduce a comprehensive and proven methodology to capture the business requirements and get them validated by the business users, which has evolved through years of experience and incorporates several best practices

Making Process Improvement Work - A Concise Action Guide for Software Managers and Practitioners

Neil Potter, The Process Group

Process improvement too often reflects a significant disconnect between theory and practice. This workshop bridges the gap - offering a straightforward, systematic approach to planning, implementing, and monitoring a process improvement program. ??With examples based on our extensive experience, this workshop shows how to define goals that directly address the needs of your organization, use improvement models appropriately, and devise a pragmatic action plan. In addition, it reveals valuable strategies for deploying organizational change, and delineates essential metrics for tracking your progress. Class materials provide examples of an action plan, a risk management plan, and a mini-assessment process

Rules of Engagement

Pat Ferdinandi, Strategic Business Decisions

Ever wonder why more than 36% percent of proprietary software fails? The answer is that defects and cost-overruns are a result of poorly defined requirements. If you calculated this percent of the project's cost, how much could have been avoided if your staff were trained on what information needs to be captured and how to engage the business community in developing better requirements. This program concentrates on the real front-end of any project ... talking with business personnel to get the information needed to define the results you want. Save time and money on your project but most important is to get the output your business needs in the time frame you need it.

Driving Software Process Improvement Through System Testing

Nathan Petschenik, STS Consulting

To achieve success in system testing, technical excellence is necessary but it's not sufficient. Equally important are skills to influence project team behavior to prevent defects from reaching system test in the first place. Participants will learn leadership techniques that can increase productivity, improve software quality, and reduce costs This includes participating in a Role Awareness seminar that can help identify and break down barriers and impediments to software quality on your project.

Participants will also learn how system test teams can use measurements to help project team members—both testers and developers—get better at their jobs

Agile Project Management

Chris Sims, Technical Management Institute

On a software project, uncertainty is certain. The customer will change their mind, a 'must have' feature will be discovered, deadlines will move, or an unexpected competitive threat will need to be countered. The agile approach to project management allows the team to easily adjust to these changing conditions in order to produce the most valuable software possible.

This workshop teaches the fundamentals of agile project management, and is recommended for everyone who will be involved in an agile project. We will explore the key roles, responsibilities, interactions, and processes that make a successful agile project happen.

"(The Symposium) was great last year and better this year. Striving to keep learning continuously is a goal that the SPIN/SMS Symposium helps to achieve."

Jeff Davis

AFTERNOON TUTORIALS:

The Recursive Nature of Requirements Development

Tim Kasse, Kasse Initiatives LLC

Collecting and understanding requirements is the necessary but not necessarily sufficient start of a successful project. Large projects involving systems and software components are required to collect and analyze requirements using a more incremental or recursive approach. The SEI's CMMI-DEV v1.2 illustrates this point.

The Analyze and Validate Requirements specific goal addresses the necessary analysis to define, derive, and understand the requirements. This specific goal is intended to assist the specific practices in the first two specific goals.

The processes associated with the Requirements Development process area and with the Technical Solution process area may interact recursively with one another. Analyses are used to understand, define, and select the requirements at all levels from competing alternatives. Analyses occur recursively at successively more detailed layers of a product's architecture until sufficient detail is available to enable detailed design, acquisition, and testing of the product to proceed.

PPQA Role in Analyzing & Evaluating Metrics Programs

Lori Montanari Gottshall, Software Management Solutions, Inc.

This tutorial reviews the skills that Software Quality Practitioners must have to objectively evaluate their organization's quality program. Specific measurements are needed to establish goals, track progress, prioritize efforts, and report to management. Measurements for both product and process quality will be examined.

The attendees will be introduced to terminology and theory, lecture will include examples, and exercises will be worked to reinforce learning. A final section will focus on how the PPQA professional gains insight to overall organizational quality through defect analysis and defect removal effectiveness calculations. Ample time will be allowed for discussion of real life situations.

Effective Project Retrospectives and Intuitive Risk Management

F. Michael Dedolph, Computer Sciences Corporation

This is a hands-on tutorial, combining two group-oriented techniques into an integrated mechanism for improving future project performance. The session will teach people how to gather useful lessons learned by conducting an effective project retrospective. The lessons are transformed into learnings in the form of specific process improvements, issues, and risks related to future work. An introduction to intuitive risk management will help participants view risk differently, and will provide methods for sustaining and extending the initial risk list over time. Used collectively, these methods will energize risk management, and complement more formal risk techniques.

Software Cost Estimating Fundamentals

Joseph Ingemi, PRICE Systems, L.L.C

Many software development projects are delivered late and over budget. These projects often do not meet the original requirements, have an unacceptable number of defects, and may not even function properly. This three-day course is designed to show participants how to estimate the costs and schedules of software development projects in order to avoid large overruns.

This tutorial presents practical techniques and tools to estimate, plan, and complete high quality projects that are on budget and schedule.

Combining RUP and Agile in software development

Michael Kaufman, Advanced Business Automation & Palani Enterprises

Participants will learn how to execute project plans based on RUP or Agile methodologies. They will know what common to the both and what differentiates them apart. There will be example of when and how both methodologies can be combined within a project plan and what it can accomplish.

"The keynote speakers provided a sense of inspiration in dealing with the many challenges that continue to plague the IT industry."

Lenny Diliberto
Chubb & Son

TRACK ONE: CMMI & PROCESS IMPROVEMENT I

EXECUTION - the key to success! The Top 10 Steps for Achieving Successful Institutionalization of Processes and Tools

John L Voss, Accenture

9:20am - 10:00am - Are you constantly fighting to successfully institutionalize process improvements? Is your organization undergoing yet another reorganization? Does your organization need to integrate multiple models or standards? Are you tired of trying to figure out how to make it all fit together? The answers are only a few steps away! Attendees will learn tips and techniques to overcome organizational obstacles; including tight budgets, limited time, limited availability of skilled resources, senior leadership support. I will provide a set of activities you may perform now that can work successfully even when everything around you may seem to be in turmoil.

Team for Success: Process Engineering and Quality Assurance

Sharon E. Miller, L3 Communications Command & Control Systems and Software/ILEX Sector

10:30am - 11:20am - Process engineering and quality assurance are in place; organizational processes are defined and deployed; institutionalization is still an issue. Sound familiar? The easy part of the journey to CMMI Level 3 is putting organizational processes in place. The hard part is getting the entire organization to embrace the processes and integrate them into their day-to-day activities. Process engineers are model-centric, generally not very involved in day-to-day project activities. Quality assurance is project-centric; very involved in day-to-day project activities. This presentation discusses how one organization leveraged the strengths and capitalized on the differences between these disciplines to successfully drive institutionalization in a natural and seamless way

Extreme Auditing: Application of extreme programming in Auditing. A breakthrough in process experimentation in Nedbank

Reinier Olivier & Amol Tope, Nedbank Ltd

11:20am - 12:00pm - Organizations are striving for process maturity to improve their productivity, drive down cost, ensure predictability, retain the knowledge in the process assets and reduce dependency on people. At the IT Process audit function of Nedbank Ltd., South Africa, we have applied concepts of extreme programming to achieve these goals. The purpose of this paper is to briefly explain the steps taken at Nedbank to adopt and establish these concepts in the Process & Product Quality Assurance (PPQA) function. The paper gives a brief review extreme programming and describes the various methods used by the organization in adopting these principles and the results of implementation. The paper also illustrates the benefits, which the organization has gained.

Work On Your Engineering Business, Not In It.

Rolf Reitzig, cognence, inc

2:10pm - 2:50pm - Best in Class companies are built on a simple principle: successful businesses are built on scalable systems that enable their people to deliver higher quality products and services than the competition. The CMMI builds on this principle, particularly at Maturity Level 3 where a repeatable, scalable, and franchisable engineering system has been put in place. Unfortunately, many organizations don't understand and don't employ the strategic benefits CMMI embodies. Too many view compliance as "checking the box" versus creating a culture that constantly improves. This presentation will introduce participants to key concepts that enable one to work ON an engineering business, and not IN it

The Last Phase in Process Change - Deployment

Barbara A. Tyson, Software Engineering Group

3:20pm - 4:10pm - Organizations often struggle to effectively deploy new or changed processes. Many times this is because the deployment is not fully planned and monitored. The need for attention to this type of planning and monitoring is reflected in Specific Goal 3 of the Organizational Process Focus Process Area. This session will walk through an approach to planning and monitoring process deployment activities. In addition, types of measures to monitor adoption of new processes will be discussed. The session will also provide time for attendees to share their experiences and successes in relation to deploying new processes in their organizations

"This was a very thorough and comprehensive presentation of the software engineering environment today."

Frank Lewis
ILEX Systems

CMMI on the Web v1.2

Shane McGraw & Deen Blash, Software Engineering Institute

9:20am - 10:00am - With the abundance of information on CMMI, this presentation will clarify what is available for organizations starting and maintaining CMMI-based process improvement initiatives. While your implementation will be unique, there are definite commonalities for every CMMI implementation. This presentation will also show that efficiently accessing the available information has enormous tangible benefits for anyone interested in CMMI-based process improvement

CMMI® Maturity Levels, Not Acting Your Age and Erosion of Continuity - Causes and Cures

Ken Dymond, Process Transition International, Inc

10:30am - 11:20am - Sometimes a CMMI appraisal is like a chemistry test – once it's over, life goes on as usual. The appraisal (the test) is the focus, but production capability is what customers and suppliers want. A Maturity Level > 1 indicates capability but does not guarantee that customers will see the expected behavior (acting one's age). Some causes (poor labeling of the appraised entity) can be adjusted by a kind of truth-in-labeling and by educating the customer. Others are inherent in model-based and appraisal-determined process capability and are more difficult. This presentation describes factors to help ensure continuity of capability.

Using Failure Mode and Effects Analysis (FMEA) to Assess Risks to the Global Enterprise due to Process/Application Changes

Vic Nanda, Motorola

11:20am - 12:00pm - As part of a multi-million dollar project, Motorola has undertaken an ambitious project to redesign the current global architecture for a business-critical application in order to improve operational efficiencies and reduce cost of poor quality. The challenge for the quality team was to proactively identify the risks to the global enterprise due to redesign of the current architecture, and how to mitigate those risks prior to implementation of the new architecture. The presentation will describe: 1. How the FMEA Six Sigma method was enhanced to get a quantifiable measure of risk to the global enterprise 2. How the risks were analyzed to provide a prioritized list of improvement recommendations, and 3. How the team demonstrated quantifiable reduction in enterprise risk if the improvement recommendations were to be implemented This before and after analysis (items 1 and 3 above) of the original and reduced enterprise risks, along with a Pareto analysis of the underlying root causes that posed the most risk to the enterprise, served as a very effective tool for of presenting results of this risk assessment exercise to senior management for informed decision making.

Documentation Diet

Neil Potter, The Process Group

2:10pm - 2:50pm - This talk addresses the following crucial topics in any process improvement initiative: (1) How to focus on the organization's current needs and problems and create documents that serve your organization; (2) How to keep processes short, to the point, and flexible so that they help individuals do their jobs; (3) 10 ways to keep processes concise; (4) How to know if you are meeting the intent of CMMI process areas; (5) What it means to have an SEI Maturity Level N process; and (6) How to know when you are in trouble.

CMMI-SVC : Get Ready... Here it Comes

Craig Hollenbach and Marilyn Ginsberg-Finner, Northrop Grumman Information Technology, and Eileen Forrester, SoftwareEngineering Institute

3:20pm - 4:10pm - CMMI for Services (CMMI-SVC) is a CMMI constellation that covers the activities required to manage, establish, and deliver services. Currently, some service organizations apply CMMI-DEV to their work, but this requires significant interpretation. CMMI-SVC is relevant to any organization concerned with the delivery of services, including enterprises in sectors such as defense, IT, health care, finance, and transportation. This presentation provides an overview and will use a Case Study to prepare attendees to consider the application of the CMMI-SVC to their environment. The presentation will also address the synergy between ITIL and the application of CMMI-SVC to IT services.

"Well organized. Advance prep made this go smoothly. High quality presentations. Great opportunity for informal networking with other professionals."

Barbara Dreon
Northrup Grumman

"Have lots of good ideas to take back to help with implementation planning. Different tracks offered a good variety and made for easy selection."

Anna Alton
Users Incorporated

Agile 101: An Introduction and Overview

Chris Sims, Technical Management Institute

9:20am - 10:00am - Agile software development has crossed the chasm and become a mainstream best practice. Microsoft, Google, Yahoo, and IBM all do agile development, as do scores of fast-moving start-up companies. Businesses like agile because it delivers more value in less time. Engineers enjoy the opportunity to craft high quality code that they can be proud of.

This presentation examines agile methods, uncovering how, why, and when they work. We will avoid the preachy and focus on the practical, sharing stories and lessons from real projects. You will hear what worked and what didn't

"After more than 25 years in s/w release management, this is one of the most complete presentations of applied quality I have seen - very informative & immediately useful."
Charles B. Rosen, PMP
PMOLink

Agile CMMI: Supercharging process performance Using agile Methods

Jeff Dalton, Broadword Solutions Corporation

10:30am - 11:20am - Is your company trying to roll out yet another process that's too heavy, burdensome, and just gets in the way? Are they trying to achieve CMMI, ISO9001, or ITIL just to get the certificate on the wall?

Come listen to Jeff Dalton, an Agile CMMI Lead Appraiser and creator of "AgileCMMI" a process methodology based on Agile project management concepts that will help you deploy useful, right-sized, and agile processes that will not only reduce your workload, but will allow you to achieve CMMI.

Attendees will learn how to apply the concepts of incremental releases, iterations, refactoring, test based design, and incremental design and development to the deployment of useful processes.

"It was definitely well worth the time. Lots of good nuggets of wisdom."
John Browning
Pershing

Mixing Oil With Water (CMMI meets eXtreme Programming)

Stephen Gristock, Citi - JPMorganChase / Independent Consultant

11:20am - 12:00pm- eXtreme Programming (XP) is still widely recognized as an industry standard for agile development. Developed from more "traditional" I.T. values, the CMMI provides a proven framework for driving process improvement. On the face of it, CMMI and XP would appear to be (almost) mutually exclusive. However, this presentation will demonstrate that it is possible to combine both disciplines into a powerful tool for driving improvement in the software engineering domain. Based upon a real-world case study, this session will provide practical insights into deploying a highly complementary integrated CMMI/XP solution. All delivered with a dash of humor.

Using Automated Frameworks to Facilitate Early and Frequent Testing

Steve Orlich & Denise Chester, Minitab Inc.

2:10pm - 2:50pm - Late, changing, or ambiguous requirements: these facts of software development have had their share of blame from the software industry for failed or delayed deliveries. However, the "regression testing cycle" can be one of the most unpredictable and wasteful periods during the software development cycle. Waiting until certain periods of time to do regression testing leads to and promotes many poor development habits. We will review some specific development techniques that can be used to foster continual testing that can lead to more predictable software outcomes, better process, and eliminating the "regression testing cycle" all together.

An introduction to ITIL V3 and its impact on software processes

Richard Horwitz, BearingPoint

3:20pm - 4:10pm- Although ITIL has been around for years, only with the release of V3 in 2007 has it taken the IT world by storm. Centered around the concept of Business Focused IT Services, ITIL V3 provides a comprehensive lifecycle covering everything from the strategic planning of services, to their design and release, to the day to day management and continual improvement of services. In this session you will learn what each of the five ITIL V3 books covers, the key concepts they address, and the processes they define. You will also learn specific steps you can take in your own projects to help them support the ITIL V3 model.

Analyzing Defects Can Tell a LOT About a Company

Diane Mizukami-Williams, Northrop Grumman Corporation

9:20am - 10:10am - By analyzing a company's defect data using statistical analysis techniques, such as control charts, tests for equal variance, etc., you can tell a LOT about the company with very limited knowledge about the company. Since most companies, even small companies, collect defect data during test, it is the most readily available data that can provide insight into the company's maturity level and the quality of their products. This presentation will use real defect data from a company, analyze it, and come up with a story about the company based on defect data alone.

"For the record, I thought this symposium was the best value for the money spent I have received in several years."

Alex Lamb
L3, Communications,
ILEX Systems

How can we measure the value of IT?

Michael Harris, David Consulting Group

10:30am - 11:20am - The phrase, "Beauty is in the eye of the beholder," could equally well apply to IT value as to beauty. IT consumes more resources than other functions because of the cost to operate the IT infrastructure and the ubiquity of IT throughout the organization. How do you know if you are getting value for money from your IT investments? How can you tell if you need to make as much investment in IT as you are making now? This presentation reviews the most frequently used financial and non-financial measures of IT value

"Excellent choice of topics. It was difficult to choose which ones to attend and which ones to miss."

Partha Mallikarjun
Citigroup

The Evolution of Software Size : A Search for Value

Arlene F. Minkiewicz, PRICE Systems, LLC

11:20am - 12:00pm - From internal software groups to commercial IT organizations, failure is being proposed. Sort of! Internal IT shops are over committing themselves. Organizations are agreeing to suspect terms in order to gain the contract. Is this what software development and information technology have come to? What is causing it? Is it due to the competitive marketplace (outsourcing as a factor)? Is it due to poor planning? Do we know? In this lively, participatory session, the presenter and attendees will examine the causes of over-commitment, how to recognize it BEFORE it happens, how to correct it when possible, and how to make lessons learned in this area count for SOMETHING when scoping the next project.

Secure SDLCs Compared

Kenneth R. van Wyk, KRvW Associates, LLC

2:10pm - 2:50pm - Several secure software development processes have been published in the past few years. These include Microsoft's Secure Development Lifecycle, Cigital's "Touchpoints", and OWASP's own CLASP project. Which one is right for your organization, or would your needs be best served by taking the best of each and coming up with "your own" process? In this talk, we'll compare and contrast each of these approaches and talk about the practical aspects of putting them to maximum use, including pitfalls to avoid.

Design of IT Release Management Process using Blended DMAIC & DFSS Methodology

Neeraj Katare & Dr.Prasad Chitimalla, Tata Consultancy Services Ltd

3:20pm - 4:10pm - Inefficient and inconsistent software release processes have persisted for long and was a major cause for setbacks in the IT environment. While the current process was disjointed and different functions within the organization perceived the process differently, it also lacked clearly defined ownership. The team used a blended approach of both DMAIC and DFSS first to understand the existing process, establish process performance baseline, and perform root-cause analysis and later to design the new release process using the principles of process design. This demonstrates how one can resolve a real customer problem by bringing best of both methodologies together.

Organizational Change Management (OCM) the missing PA (Process Area)

William C McKnight, Next Level Consultants

9:20am - 10:00am - The benefit of compliance to the CMMI can not be realized if an organization is unable to adapt the behavior of its people to comply with their defined process. This presentation will define the Goals and Practices of Organizational Change Management, describing the “what” so organizations can define the “how” that will enable change within their organization. All the material delivered will be supported by accepted theories in change management. The goals identified will be compatible with recognized three-step change processes first introduced by Kurt Lewin in 1947 This model of change is based on the theory that change occurs through three phases, commonly referred to as unfreeze, change, and refreeze.

From Grass Roots to Executive Enthusiasm - The Inside Job of Selling CMMI

Rob Donnellan, Q/P Management Group

10:30am - 11:20am - Without ongoing support from key stakeholders, and especially senior management, process improvement initiatives are unlikely to succeed. However, acquiring internal commitment to initiatives is neglected surprisingly often. The result: cancellations, delays, resources reductions, and organizations reduced to just superficial activities. This presentation will discuss in general the how-to for internal selling of improvement initiatives, and specifically the issues related to selling the CMMI®. Topics will include: The bad things that happen when you don't sell internally; Internal selling steps; How to tell if it's working; and Specific issues related to selling CMMI.

Improvement in Four Dimensions

John H. Maher, Jr., Organization & Process Improvement, Inc.

11:20am - 12:00pm - Improving sustainably ... in an organization... with a culture...where people must change habits...to accomplish management goals...in a specified time...isn't a walk in the park. Four disciplines—what to improve, how to improve, how to adapt to an organizational context, and how to effect real change—comprise a critical set of knowledge and skills for guiding an improvement effort. In this session we'll look at a core set of models in each dimension that anyone implementing improvement must know how to apply in today's complex environments

Test Driven Architecture

Joseph N Frisina, BAE Systems

2:10pm - 2:50pm -We can usually agree that good software architecture is essential to the development of a good software product. But what makes good software architecture? How do we tell if we have a good architecture? Why Generating a good Software Architecture remains wrapped in mystery because we have many different voices each crying-out there particular approach. We assert that having a good architecture is important but give little guidance on how to achieve a good architecture. What this article provides is a method to achieve good software architecture based upon a reversal of the Software Engineering Institute's Architectural Trade-off Analysis Method (ATAM). With the approach provided you can guarantee the 'goodness' of your architecture for the intended purpose.

Importance of Traceability to Design for White Box Testing

Alice C Brown, Haemonetics, Inc

3:20pm - 4:10pm- Too often products are released into the field with inadequate testing. When the failures occur, the root cause analysis shows that there was not enough attention paid at the interfaces, at the detailed level of design. Why? One reason is because there are so few standards regarding the granularity necessary in performing a trace. Another is that too few companies require a trace from software requirements to design to test cases and test procedures. This paper will deal with white box testing and how a thorough trace including 'completeness' as an evaluation criterion will produce at much less cost in money and company reputation, a quality product. References will be made to the CMMI, automated testing tools and how essential continual refinement of the review process is. Problems encountered and warnings concerning 'informed reviewers' are also included. The attendees will be given a list of dangerous ambiguities and important 'whys' to substantiate the additional cost of design traceability to take home to their management.

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