



**The 8th  
International  
SPICE Conference  
Software Process  
Improvement and  
Capability  
dEtermination**

Nuremberg, Germany  
26-28 May 2008

**Conference Program**

CONFERENCE  
  
SPICE 2008





## Alec Dorling

On behalf of the SPICE User Group and the international SPICE community, may I warmly invite you to attend this year's SPICE conference, SPICE 2008, 26, 28 May 2008 in Nuremberg!

The latest developments in SPICE will have a significant impact for businesses operating in the regulated industries such as Automotive, Medical Devices and Financial Services. All these initiatives have a major presence at the conference.

A special "High Maturity" session following a keynote presentation from Mark Paulk will provide a platform to showcase three organizations, all from India, operating in the automotive domain that have achieved (or are expecting to achieve) ISO/IEC 15504 (SPICE) Organizational Maturity Level 5. By attending the event you will have the opportunity to be informed of the latest developments! This should provide you and your business with a head start. The event will also provide an excellent networking opportunity.

I look forward to welcoming you to the event!

General Chair  
InterSPICE



## Robert Treffny

As president of the Global Association for Software Quality, I am gladly inviting you to Nuremberg, Bavaria's second largest city!

With more than 2.5 million people living in the Nuremberg area, it is also the thirteenth-largest municipality in Germany. Nuremberg's reputation for innovation and technology ranks among the top in Europe!

Top of the class is also this year's SPICE conference in Nuremberg: Four keynotes, 29 presentations in three parallel tracks, nine industry and technical sessions with presenters from 14 countries and four continents - SPICE 2008 is the premier international conference with this year being the largest ever.

I am inviting you to join SPICE 2008 and discover Nuremberg! Walk through medieval streets with almost one thousand years of history; explore Nuremberg's open and tolerant face; get the latest information on SPICE by the best experts - and also enjoy your time in this truly European metropolitan area!

President  
Global Association for Software Quality

# CONFERENCE SPICE 2008

Since the first SPICE symposium in 1994, the SPICE conference has become the source of choice no.1 for thousands of experts, speakers, visitors and exhibitors, over the past 13 years.

Participants from more than 30 countries, a program committee from four continents and the best experts in the field of Software Process Improvement make the perfect setting for exhibiting and reaching the international SPICE community.

SPICE 2008 features tutorials, keynotes, presentations of speakers from research as well as from practice.

A special focus will be given to certain key processes, such as Testing.

It will bring presentations from financial institutions and banks, the automotive, aerospace and medical industry as well as process improvement in small and very small enterprises.

SPICE 2008 will answer questions and explain the new developments at Enterprise SPICE, SPICE for Automotive and Banking SPICE.

## PROGRAM COMMITTEE:

Beatrix Barafort (Luxembourg)  
Juan M Carranza (Netherlands)  
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Jean-Martin Simon (France)  
Fritz Stallinger (Austria)  
Angela Tuffley (Australia)  
Han van Loon (Switzerland)  
Timo Varkoi (Finland)

## Keynote 1

Mark Paulk, Senior Systems Scientist, Carnegie Mellon University

### Understanding High Maturity Practices

"High maturity" as used in the Capability Maturity Model for Software or CMM Integration implies a superior process capability, with the expectation of continual, measured improvement. The purpose of this presentation is to discuss the fundamental principles of process management at the higher maturity levels.

Dr. Mark Paulk is a Senior Systems Scientist at the IT Services Qualification Center at Carnegie Mellon University, where he works on best practices for sourcing of IT-enabled services. From 1987 to 2002, he was with the Software Engineering Institute at Carnegie Mellon, where he led the work on the Capability Maturity Model for Software.



## Keynote 2

Linda Ibrahim, International Project Leader for Enterprise SPICE

### SPICE'ing Up Your Enterprise

Dr. Linda Ibrahim is the international project leader for Enterprise SPICE and Chief Engineer for Process Improvement at Federal Aviation Administration (FAA). She is lead author and architect of FAA-integrated Capability Maturity Model (iCMM), its Safety and Security extensions, and appraisal method and co-chairs the Enterprise Process Improvement Community of Practice (EPIC). She has worked in software engineering as practitioner, manager, educator, consultant and researcher; in the US, Europe, and Middle East.



## Keynote 3

Francois Coallier, Président/Chairman ISO/IEC JTC 1/SC7

### What does Engineering mean in 'Software Engineering'?

Dr. François Coallier is chair the Department of Software and IT engineering at the École de technologie supérieure (ÉTS), affiliated to the Université du Québec network. He has nearly twenty-two years of industrial experience in one of Canada's largest companies, where he held various engineering and managerial positions in engineering, quality engineering, IT procurement, IT infrastructure deployment and operation and IT Enterprise Architecture Management. He has been continuously involved in software and systems engineering standards development since 1984, being the international Chairman of the Joint ISO and IEC subcommittee responsible for the elaboration of Software and Systems Engineering Standards (ISO/IEC JTC1/SC7) since 1997.



## Keynote 4

Edoardo Sivera, Head of Software Engineering Team, Fiat Group Automobiles (FGA)

### Automotive SPICE® Assessment Experiences: An Overview of Fiat Group Automobiles Software Methodologies

Edoardo Sivera is Head of the Software Engineering Team in Fiat Group Automobiles (FGA) and represents FGA in AutomotiveSPICE and the AUTOSAR consortium. He has been working at FGA since 1991 and has extensive experience in embedded software development, CAN network design, automotive system architecture definition and software process improvement. Principal activities include function validation through model development and simulation, software project management, software quality management and ISO/IEC 15504 (SPICE) assessments. In 2006 Edoardo founded the "Software Factory" team whose main goals are to design, develop and verify software modules for all FGA vehicle brands.



## 9.00 - 12.45 Tutorial 1

### Alec Dorling Introduction to Automotive SPICE®



In this tutorial Alec will provide a brief introduction to the Automotive SPICE® initiative and the requirements of the car OEMs. He will introduce the Automotive SPICE® Process Assessment Model and walk through the key processes and practices providing a commentary on which process outcomes provide most difficulty with suppliers. Finally he will provide some 'insider tips' on how to prepare for an external assessment.

Alec Dorling is the international convener of ISO/IEC 15504 (SPICE) and coordinator of the Automotive SPICE® initiative with the leading European car OEMs.

## Tutorial 2

### Terry Rout SPICE and other Flavours: Process Improvement using ISO 15504



The tutorial will provide participants with a good understanding of the role of ISO/IEC 15504 - Process Assessment, and of the relationship with other standards and assessment approaches. It provides a detailed analysis of the framework for process assessment in ISO 15504, placing it in the context of international developments, and emphasizing the role of the framework in harmonizing existing assessment approaches such as those based upon the Capability Maturity Model.

Terry Rout is the overall Project Editor for ISO/IEC 15504, and is uniquely placed to provide current and accurate information on the current status and evolution of this critical International Standard.

## Tutorial 3

### Carol Dekkers Scope Management for Adults - a 12 Step Recovery Approach for ICT Project Recovery



Carol Dekkers is President of Quality Plus Technologies, Inc., a Florida, USA, based progressive management consulting firm specializing in working with companies who want to improve their software and systems success.

She is Past-Chair and Founder of the American Testing Board and a former President of the International Function Point Users Group (IFPUG).

## 12.45 - 13.30

## Lunch

## 13.30 - 17.15 Tutorial 4

### Bogdan Bereza-Jarocinski Psychology of Test Management



This tutorial focuses on the aspect of test management and the role of psychology in it.

Bogdan has experiences in teaching testing, requirements and other SW engineering subjects since 1994. He pioneered ISEB Foundation in Sweden (1999), in Poland (2004), then ISTQB® Foundation in Poland (in both English and Polish) 2006-2007.

## Tutorial 5

### Clenio Salviano Establishing ISO/IEC 15504-Based Process Capability Profile to Process Improvement



This tutorial will present a method for establishing ISO/IEC 15504-Based Process Capability Profile to Process Improvement (PRO2PI). It covers the rationale for the method, considerations about its constructions during the last seven years of industry-as-laboratory cycles.

Clenio F. Salviano is a researcher at the "Renato Archer" Research Center (CenPRA) in Campinas, Brazil since 1984 and a professor in software process improvement in professional courses at UFLA, SENAC and UNIMEP Universities.

## Workshop

### Enterprise SPICE / Banking SPICE

(Please visit the conference website at [www.SPICE2008.com](http://www.SPICE2008.com) for further information on this free workshop and for registration information.)

9.00 - 9.30			<b>OPENING SESSION</b>		
9.30 - 10.30			<b>Keynote</b> <b>Francois Coallier</b> - Président/Chairman ISO/IEC JTC 1/SC7 <b>What does Engineering mean in "Software Engineering"</b>		
10.30 - 11.00			<b>Coffee / Exhibition</b>		
11.00 - 12.30		<b>Technical Session 1</b>	11.00 - 12.30		<b>Industry Session 1</b>
<b>Wolfgang Molnar</b> Warwick Business School United Kingdom <b>Software Development Standards and Improvisation: A Case Study</b>		<b>Hans Schaefer</b> Norwegian Testing Board Norway <b>Optimizing your Test Documentation using IEEE 829</b>	<b>Dirk Malzahn</b> OrgaTech GmbH Germany <b>ISO 15504 based Assessments for Information Quality</b>		<b>Technical Session 2</b>
<b>David Tuffley</b> Software Quality Institute Australia <b>Evolving a Process Reference Model for the Leadership of Integrated Virtual Teams</b>		<b>Cenkler Yakin</b> STM - Turkey <b>Project Level Project Management vs. Organizational Level Project Management</b>	<b>Tom McBride</b> University of Technology Australia <b>Decision-making in Software Development</b>		
<b>Beatrix Barafort</b> Centre de Recherche Public Henri Tudor -Luxembourg <b>A Transformation Process for Building PRMs and PAMs based on a Collection of Requirements - Example with ISO/IEC 20000</b>		<b>Dariusz Stefaniuk</b> ETC bettersoftware.eu - Poland <b>Influence Test Management on High Quality ERP Systems</b>	<b>Saira Anwar</b> National Fertilizer Corporation - IEFER Pakistan <b>Measuring Quality of Software Engineering Education Processes</b>		
12.30 - 13.30			<b>Lunch / Exhibition</b>		
13.30 - 14.30			<b>Keynote</b> <b>Edoardo Sivera</b> - Head of Software Engineering Team, Fiat Group Automobiles (FGA) <b>Automotive SPICE® Assessment Experiences: An Overview of Fiat Group Automobiles Software Methodologies</b>		
14.30 - 15.30		<b>Industrial Session 1</b>	14.30 - 15.30		<b>Industrial Session 2</b>
<b>European Test Centre</b> <a href="http://bettersoftware.eu">bettersoftware.eu</a>		<b>Knowledge Department GmbH &amp; Co. KG</b>			<b>Industrial Session 3</b>
<b>PARASOFT S.A.</b>		<b>microTOOL GmbH</b>			
15.30 - 16.00			<b>Coffee / Exhibition</b>		
16.00 - 17.30		<b>Industry Session 2</b>	16.00 - 17.30		<b>Technical Session 3</b>
<b>Risto Nevalainen</b> FISMA - Finland <b>Software Certification in the Nuclear Domain</b>		<b>Andre Rifaut</b> Centre de Recherche Public Henri Tudor - Luxembourg <b>ISO/IEC 15504, a Basis for Generally Accepted Sound Process Models in Financial Institutions: A Case Study about Venture Capital Fund Management</b>	<b>Horst Pohlmann</b> Hella KGAG Hueck & Co. - Germany <b>Developing Automotive SPICE® compliant Test Processes based on the ISTQB® Fundamental Test Process</b>		<b>Industry Session 3</b>
<b>Nita Sarang</b> CMC Limited - India <b>Defect-based Reliability Analysis Model for Business Systems Deployed on a Large Scale</b>		<b>Simon Alexandre</b> CETIC - Belgium <b>Implementation of a Software Process Standard as an Electronic Process Guide</b>	<b>Olaf Lewitz</b> microTOOL GmbH - Germany <b>Challenges of Creating an Organisation-wide Process Definition for Automotive SPICE®</b>		
<b>Zahoor Ahmad Gorski</b> Lahore University of Management Sciences (LUMS) - Pakistan <b>Empirical Studies on Characteristics of High Maturity Organizations</b>		<b>Jean-Philippe Bodelet</b> Henri Tudor Public Research Center - Luxembourg <b>Managing Change Generated by a SPI Project in a Banking Organization</b>	<b>Martine Herpers</b> Knowledge Department GmbH & Co. KG - Germany <b>The 5 Pitfalls of Implementing Automotive SPICE® in Small Companies</b>		
19.30 - open end			<b>Social Event</b>		

9.00 - 9.30			Coffee / Exhibition		
9.30 - 10.30			<b>Keynote</b> <b>Linda Ibrahim</b> International Project Leader for Enterprise SPICE <b>SPICE'ing Up Your Enterprise</b>		
10.30 - 11.00			Coffee / Exhibition		
11.00 - 13.00		Industry Session 4	Technical Session 4		Industry Session 5
<b>Alain Renault</b> Centre de Recherche Public Henri Tudor - Luxembourg <b>Process Assessment to Support Conformity Assessment - Experimentation of a PAM for Accreditation Conformity Assessment</b>		<b>Clenio Salviano</b> CenPRA - Centro de Pesquisas Renato Archer - Brazil <b>Model-Driven Process Capability Engineering for Knowledge Working Intensive Organization</b>	<b>Fergal McCaffery</b> Regional Development Centre - Dundalk Institute of Technology Ireland <b>Development and Evaluation of a Risk Management Capability Model (RMCM) for the Medical Device Industry</b>		
<b>Anne-Laure Mention</b> INNOFinance Responsible - Luxembourg <b>An Open Innovation Framework for Services Process Improvement and Capability Determination in the Banking and Financial Sector Based on ISO/IEC 15504</b>		<b>Terry Rout</b> Griffith University - School of Computing and Information Technology Australia <b>Issues in the Assessment of Organizational Maturity</b>	<b>Celestina Bianco</b> NTE SA - Spain <b>Critical Software, Small Companies and SPiCE</b>		
<b>Anne Kramer</b> sepp.med gmbh - Germany <b>SPICE for Service Providers</b>		<b>Timo Mäkinen</b> Tampere University of Technology - Finland <b>Analyzing a Process Profile for Very Small Software Enterprises</b>	<b>Bogdan Bereza-Jarocinski</b> ETC bettersoftware.eu - Poland <b>Risk, Testing and Decision Theory</b>		
<b>Gerry Coleman</b> Dundalk Institute of Technology - Ireland <b>Experiences of Performing Lightweight Software Process Assessments within Small-to-Medium Sized Enterprises (SMEs)</b>			<b>Tuna Kilic</b> STM Savunma Teknolojileri Mühendislik ve Tic. A.S -Turkey <b>Measurement of Software Verification and Validation Efficiency Using DRE Metric in a Defense Industry Project</b>		
13.00 - 14.00			Lunch		
14.00 - 15.00			<b>Keynote</b> <b>Mark Paulk</b> Senior Systems Scientist, Carnegie Mellon University <b>Understanding High Maturity Practices</b>		
15.00 - 16.30			High Maturity Session		
<b>S M Balasubramaniyan</b> Vice President - Mission Quality & Operational Excellence.		<b>Wipro Technologies, India</b> Sustaining High Maturity practices in High Growth Environment			
<b>Suresh A Umakanthiah</b> Head of Quality Group for Automotive LOB		<b>KPIT Cummins Infosystems Limited</b> Quantitative Project Management and the Role of Process Consultants - at KPIT Cummins			
<b>Venkatanarayan G</b> Quality Head at Bangalore		<b>Arpitha M Kaushik</b> Sr. Quality Analyst	<b>Satyam</b> Drivers and Enablers of High Maturity Practices at Satyam		
16.30 - 16.45			Coffee		
16.45 - 17.30			Panel Discussion		
17.30			CLOSING SESSION		

# High Maturity Session



A "High Maturity" session on Wednesday afternoon will showcase the only three organizations, all from India, that have achieved (or are expecting to achieve) ISO/IEC 15504 (SPICE) Organizational Maturity Level 5. The session will be chaired by Alec Dorling, the international ISO/IEC 15504 and SPICE project manager.

In the session, Wipro Technologies will talk about Sustaining High Maturity practices in High Growth Environment, KPIT Cummins about Quantitative Project Management and the Role of Process Consultants at KPIT Cummins, and Satyam Computer Services about the Drivers and Enablers of High Maturity Practices at Satyam.

This is a unique opportunity to learn from and discuss with the experts and practitioners about high maturity practices. An opportunity not to be missed!

## Workshop "Enterprise SPICE and Banking SPICE"

The Enterprise SPICE and Banking SPICE initiatives have recently launched.

This workshop will provide an opportunity for those interested in participating in these initiatives to meet and discuss with the International Project Leaders about how they can get involved and contribute to the work.

The International Project leaders will present the goals, objectives and work plans for the initiatives together with the project organization and collaborative development environment for the projects.

If you are interested to participate, you need to pre-register for the workshop as places are limited. There is no charge to attend the workshop! **You need to register at the website [www.SPICE2008.com](http://www.SPICE2008.com) in order to get entrance to that workshop!**

International Project Leader for Enterprise SPICE : **Linda Ibrahim**  
Dr. Linda Ibrahim is Chief Engineer for Process Improvement at Federal Aviation Administration (FAA). She is lead author and architect of FAA-integrated Capability Maturity Model (iCMM), its Safety and Security extensions, and appraisal method. She co-chairs the Enterprise Process Improvement Community of Practice

International Project Leaders for Banking SPICE: **Béatrix Barafort** and **Anne-Laure Mention**  
Béatrix Barafort is Responsable d'Unité au CITI Centre de Recherche Public Henri Tudor in Luxembourg. As part of its INNOFinance initiative, the Public Research Center Henri Tudor is already promoting quality standards, innovation and governance principles for the financial marketplace.



# \* Registration Form



Please tick your package for your participation at SPICE 2008:

**Tutorial(s) only:**

- One half-day tutorial - 200,00 EUR
- Two half-day tutorials - 350,00 EUR

**Conference only (no tutorial):**

- 2 days conference - 580,00 EUR
- 2 days conf. (reduced\*) - 490,00 EUR

**Conference and two tutorials:**

- 2 days conference plus 2 tutorials - 780,00 EUR
- 2 days conference (reduced\*) plus 2 tutorials - 690,00 EUR

\*(Please note: The reduced price is for registered assessors with valid proof of status only!)

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**Tutorial packages** Select one or two

- Tutorial 1  Tutorial 2  Tutorial 3
- Tutorial 4  Tutorial 5

I herewith register bindingly for the marked package of SPICE 2008 conference.

Signature

**Nuremberg, Germany 26-28 May 2008**

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# LOCATION CONFERENCE



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