



**> Program**

**Keynote speakers**

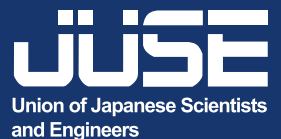
**Manfred Broy,**  
Technical University Munich

**Thomas J. McCabe,**  
CEO, McCabe Technology

**Yogesh Gupta,**  
Chief Technology Officer  
Computer Associates

**Claus E. Heinrich,**  
Executive Board SAP AG

**Toshinori Kobayashi,**  
Japanese Ministry of Economy,  
Trade and Industry (METI)



**3rd World Congress for Software Quality  
> Research**

**> Practice**

**> Business**

26 – 30 September 2005, Technical University Munich, Germany

# Welcome to Munich



## Dr. Edmund Stoiber

### Patron, Minister-President of Bavaria

As the patron, I welcome the participants to the 3rd World Congress for Software Quality in Bavaria. I am glad that Munich was chosen as the first European city to host the Congress. I also see in this an international appreciation of Bavaria and its state capital as a centre of information technology. In our economic region, which is one of the world's most productive and competitive, information and communication technology is a mainstay of technological progress and economic power.

The more we become used to handling computer-controlled equipment in everyday life, the higher the standard of software quality must be. Imperfection not only causes enormous economic damage, it is also a security risk to users in many areas of application. I only think of using microprocessors in, for example, cars or aeroplanes. Therefore co-operation and the creation of common norms and security standards of software development among America, Asia and Europe gain more and more importance. I am convinced that once again – after San Francisco and Yokohama – this 3rd World Congress will be a focal point of significant progress in this particular field.

Moreover, I hope that the participants will have the opportunity to enjoy the varied attractions of Munich and its surroundings, in addition to the conference program. Along with its historic places, its famous art collections, museums and theatres, the particularly delightful surrounding landscape as well as its merry and joyful atmosphere, it is not without reason that Munich is one of the main destinations for tourists in Europe. And a visit to the "Oktoberfest", which takes place at the same time, is almost a must for the Congress participants from all over the world.

My best wishes for a successful event go to the 3rd World Congress for Software Quality.

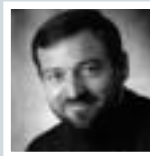


## Prof. Dr. Wolfgang A. Herrmann

### President of the Technical University Munich

It is a great pleasure to host the 3rd World Congress for Software Quality at the Technische Universität München. Informatics is the youngest discipline at our university, but numerous interdisciplinary collaborations underscore its role as a broad-based science. Once a mysterious offshoot of mathematics, informatics is now a leader in many areas of scientific progress. On the basis of its growing economic and political significance, informatics is being integrated into a business sector at our university. As a result it has been involved in a range of strategic collaborations between politics and economics. To cite an example, the V-Model XT, one of our latest ventures, is able to co-ordinate the operation within projects. This ensures that software products can be released in time, moderately priced and fully functional.

In this connection, the Technische Universität München meets the strong demands for informatics in tough international competition. And in this spirit I would like to express my hope for even more cooperation on a high research level. Thanks for coming here!



## Prof. Dr. Bernd Hindel

### Chair of the Conference

Today people depend on successfully operating software systems worldwide. Whether in business or private life – we are all forced to trust in the practicality of computer programs. Therefore it is not surprising that all over the world experts are making great efforts to improve software quality. Improving software quality is also the ambition of the 3rd World Congress for Software Quality. After this conference took place in San Francisco in 1995 and in Yokohama in 2000, the International Software Quality Institute – as the local organizer – is very proud to present the Congress this year in Munich, the capital of the European software industry. From September 26th to 30th, the leading experts from academics and industry are coming to Bavaria to share the latest ideas, insights, experiences and advances in the software quality, software process improvement and software development methods. You can expect an exciting schedule of tutorials, workshops, panel discussions, paper and keynote sessions and an exhibition of software tool vendors as well as excursions to the research laboratories of the main sponsors. Use your chance to meet experts and VIPs in software engineering business; come to the World Congress for Software Quality 2005.

## Tutorial Speakers – Tutorials in the morning

Rex Black

### Advanced Test Design

There are fundamental test design techniques: equivalence partitioning, state transition diagrams, boundary values, and decision tables. Experienced test engineers already know these techniques. This advanced test design tutorial will take experienced test engineers to the next level of proficiency. You'll learn advanced decision tables, scenario-based testing, orthogonal arrays and all-pairs tables. The course consists of a roughly equal mix of lecture, case study/example, and hands-on exercises.

Ina Schieferdecker

### TTCN-3 Workshop

In this paper we will present how a model-centric approach can be used not only to rapidly develop the system but to help provide system tests at the same time. An integral part of the overall system development. The key technology used to achieve this is a set of meta tools which contains model repository generators and model transformer generators.

Markus Müller

### Major Differences Between the old and new ISO 15504 – called SPICE – and their Impact

The participants will find out the major differences between the old and new version of the standard through intensive work with it. After understanding the differences, the experiences will be shared and the impact of the changes for existing processes will be discussed. The workshop will be done interactively with lots of discussion. Workshop steps and priorities will be agreed together with the participants based on their needs.

Tim Kasse

### The Look and Feel of a Successful CMMI Implementation

This tutorial provides practical insight into the CMMI from the point of view of a company that uses it as a tool to support its process improvement initiatives, which support the company's business objectives with measurable results. The author recently published a book on this topic. Expectations are set for all levels of management and practitioners, with practical examples added to illustrate the engineering principles behind the CMMI goals and practices. Topics include: Engineering Systems Think; Business Results; Project, Risk, Quality, and Supplier Management; Requirements Engineering; Product Integration; Integrated Teams; Reducing Variation; Establishing a Measurement Program; Improving Beyond Stability; and, the Constagedeous Approach to Process Improvement.

Taz Daughtrey

### Cost of Quality and Return on Security Investment

The security of software-based systems is an increasingly significant issue, but one that has received relatively little attention in a cost-of-quality framework. This tutorial discusses the extension of risk assessment methodologies to provide a more quantitative basis for investment decisions. This tutorial will survey approaches that have been used to analyze return on security investments and offer data gathered in academic and commercial settings. Participants will receive practical guidance on incorporating security considerations into the quality management process.

Graham Bath

### The TPI Model: A Hands-on Workshop

Test Process Improvement is a central and significant task for people working in the software quality business. To enable them to achieve a reasoned, plannable and controllable improvement in their test processes, a number of models have been proposed, of which only the TPI model appears to have achieved broad-based acceptance within industry. T-Systems uses the TPI model for assessing and improving the test process in individual projects and has also successfully used the model over a number of years with several customers. It is our experience that, if applied pragmatically, the TPI model can provide considerable value to Software Process Improvement (SPI) initiatives in general and Test Process Improvement (TPI) initiatives in particular.

Dirk Muthig

### Product Line Engineering in Practice

Product line engineering is an approach that many industry organizations want to adopt these days. The reason is that they have realized that in order to stay competitive their products must be of high quality, quick to market and customized to individual needs. This tutorial presents Fraunhofer PuLSE, the approach of the Fraunhofer Institute for Experimental Software Engineering (IESE) for product line engineering. This approach engineers a family of systems by taking advantage of their common characteristics and predicted variabilities.

## Tutorials in the afternoon

Bernard Homés

**Standards: Curse or Cure?**

Standards are sometimes viewed by the profession as a curse that plagues software test projects, or as a crutch that masks the inability of certain testers to think clearly. This presentation attempts to place standards in their proper perspective as one in a series of possible solutions to jump start some processes. Different standards are compared for the main and supporting processes in software testing, and suggestions for use are provided.

Hans Schaefer

**Testing Embedded Systems**

Embedded systems have become an increasingly important part of our daily lives. They range from small appliances, like our mobile phones, to safety-critical systems, such as railway signaling and medical devices. The tutorial will focus on the special problems encountered here and ways to deal with them. This means testing for timing problems, race conditions, deadlocks and livelocks, scheduling problems and problems with analog inputs.

Dorothy Graham

**Measuring the Quality of Testing Using DDP (Defect Detection Percentage)**

How can you show how good your testing is? Simply counting defects found in testing is not the answer. This tutorial describes a simple but effective measure of the quality of testing, which has proven very useful in a number of organizations. After this tutorial, you will understand how to calculate Defect Detection Percentage (DDP), how best to start measuring it, what it means, what options and questions there are in using the measure, and how to best use it to monitor and improve the quality of your testing.

Andreas Rausch

**Desire or Grind – How flexible is the new V-Model?**

Whether object-oriented software development or flexible processes, the new V-Model XT can fulfill many requirements. It offers a whole view by changing the structure in system development and it solves the problem of flexibility between power and simplicity by tailoring a project perfectly. There is a convincing variety of supported processes on the one hand and the simple adjustment to the concrete project needs on the other hand. Whether clients, project manager, developers or quality managers – everyone finds an answer in this compact collection of best practice. KISS – will it function with the new V-Model XT? You decide! Let yourself be carried forth on a journey through the V-Model in a new garb. This tutorial offers you a compact introduction to the V-Model XT.

Vipul Kocher

**Exploratory Testing Using Q-Patterns**

Exploratory testing has gained widespread acceptance in the industry because it offers numerous benefits. A test practitioner can combine exploratory testing with scripted testing in varying degrees to suit the context. The effectiveness of exploratory testing depends on the experience of the tester and it varies from person to person. Relative lack of documentation also makes exploratory testing difficult to practice when there are requirements for a documented test effort. Q-Patterns provide a lightweight mechanism for sharing and documenting testing experience and test cases. Q-Patterns allow a generic application of experience across projects, promote reuse of test cases and provide an easy method for reviewing specifications. In this paper we present how exploratory testing can be effectively done using Q-Patterns. Q-Patterns can serve the dual purpose of being a map to the testers performing the exploratory testing and a tool that helps to create such maps.

Colin Hood

**From Requirements to Tests**

For successful software development projects, an active management repository of clearly formulated, categorized and prioritized requirements is the basis for a common understanding of all participants and thus a key factor for project success. Even in projects with such a well-defined requirement elicitation and management process, software faults will appear. Thus, systematic validation and verification strategies have to be defined and performed. All those activities have to be derived from and linked to the original requirements in order to minimize QA efforts and to maximize their benefit to the product quality.

Yoshinori Iizuka

**A new Quality Management System Model for Sustainable Growth**

Japan has studied a new quality management system (QMS) model that can help companies to enhance their competitive advantages and to achieve sustainable growth in today's dynamic business environment. The new QMS model presents advanced concepts that go beyond the conventional ones in ISO 9004, including: sustainable success based on learning and innovation, QMS design for implementing business strategies, dynamic QMS model and twelve quality management principles. These documents were recognized as an important source for the next revision of ISO 9004. The leader of the committee that developed the documents presents the new QMS model and the results of the applications.

Program Mon

26  
Sep**8:00 Tutorial Registration****9:00 Tutorial I****Advanced Test Design**Rex Black  
Rex Black Consulting Services (USA)**Tutorial II****TTCN-3 Workshop**Ina Schieferdecker  
Fraunhofer FOKUS (D)**Tutorial III****Major Differences Between the old and new ISO 15504 – called SPICE – and their Impact**Markus Müller  
Kugler Maag Cie (D)**Tutorial IV****Introduction to Systems Engineering**Tim Kasse  
Kasse Initiatives (USA)**Tutorial V****Cost of Quality and Return on Security Investment**Taz Daughtrey  
James Madison University (USA)**Tutorial VI****The TPI Model: A Hands-on Workshop**Graham Bath  
T-Systems GEI (D)**Tutorial VII****Product Line Engineering in Practice**Dirk Muthig  
Fraunhofer IESE (D)**12:30 Lunch Break****13:30 Tutorial VIII****Standards: Curse or Cure?**Bernard Homés  
T.E.S.S.C.O. (FRA)**Tutorial IX****Testing Embedded Systems**Hans Schaefer  
Software Test Consulting (NOR)**Tutorial X****Measuring the Quality of Testing Using DDP (Defect Detection Percentage)**Dorothy Graham  
Grove Consultants (UK)**Tutorial XI****Desire or Grind – How flexible is the new V-Model?**Andreas Rausch  
TUM (D)**Tutorial XII****Exploratory Testing Using Q-Patterns**Vipul Kocher  
Pure Testing (India)**Tutorial XIII****From Requirements to Tests**Colin Hood  
HOOD (UK)**Tutorial XIV****A new Quality Management System Model for Sustainable Growth**Yoshinori Iizuka  
The University of Tokyo (Japan)**17:00 Conference Pre-Registration****17:30 Introductory Presentation**Horst Zuse, The Origin of the Computer  
Technical University of Berlin**18:30 Welcome Reception**

# Program

## 8:00 Conference Registration

### 9:00 Opening

**Bernd Hindel**, Conference Chair  
Representative of the Bavarian State Government

### 9:30 Keynote speaker

**Manfred Broy**, Software Quality – Models, Profiles, Costs  
Technical University Munich



## 10:30 Coffee Break and Exhibition

### Project Management I

### Engineering Process Philosophies

### Integration and Testing

### Quality Models I

**Panel discussion A**  
Reports from different  
Regions – Experts in dialogue  
Chair: Rudolf Hagenmüller

**11:00 A1 E-Government: Development and Deployment Process**  
Naoko Wakiya

**B1 Virtual Software Teams: Overcoming the Obstacles**  
Valentine Casey  
University of Limerick

**C1 Structural and Functional Predicate Coverage Testing**  
Mario Winter  
University of Applied Sciences  
Cologne

**D1 Practical Approach to Evolve SPI Activities in a Large-Scale Organization**  
Hideto Ogasawara

**11:30 A2 Quality Aspects in Managing Virtual Organisations**  
Josef Withalm  
Siemens AG

**B2 An Effective Approach to Integrate Product Line Engineering and Model Driven Architecture**  
Soo Dong Kim  
Soongsil University

**C2 The Research on Component-based Test Case Reuse Technique of Software**  
Liu Zhenyu  
Shanghai Software Center

**D2 Reference Model for Software Process Improvement: A Brazilian Experience**  
Mariano Montoni  
COPPE/UFRJ

**12:00 A3 Quality Improvement Practice of Offshore Development in China**  
Wu Anhua  
NEC

**B3 Quality Improvement and Development**  
Shinji Fukui  
OMRON Corporation

**C3 Testing and Verification for Embedded Linux**  
Akihiro Yamana

**D3 Quality Management Technique for Open-Platform Systems**  
Satoko Imai



## 12:30 Lunch and Exhibition

### Industrial Session

**13:30 ID-A1** 60 min

**ID-B1** 30 min

**ID-C1**

**ID-D1**

**ID-E1**

**14:00** **MERCURY™**

**ID-B2** 30 min

**ID-C2** 30 min

**ID-D2** 30 min

**ID-E2** 30 min



**Borland**



## 14:30 Coffee Break and Exhibition

### Project Management II

### Engineering Process Benchmarking

### Review Techniques, Audits I

### Quality Models II

**Panel discussion B**  
Quality-Centered Project  
Management – Japanese View

Chair: Yoshinori Iizuka

**15:00 A4 Predictive Feed Forward Control Framework**  
Soundararajan Ravi  
HCL Technologies Limited

**B4 Practical Experiences with the new ISO/IEC IS 15504**  
Markus Müller  
Kugler Maag Cie

**C4 Auditing IT Security**  
Taz Daughtrey  
James Madison University

**D4 Managing Quality of Information Retrieval for Effective Knowledge Management**  
Danny C. C. Poo  
National University of Singapore

**Motomu Koumura**  
**Mitsuru Ohba**  
**Minoru Itakura**  
**Katsumichi Yasuda**

**15:30 A5 Role of the Communications Management in PMO Activity**  
Shoso Yamato

**B5 Engineering of Six Sigma Software**  
Richard E. Biehl  
Data-Oriented Quality Solutions

**C5 Risk-based Design Review and Code Inspection**  
Yasuko Okazaki

**D5 A Quantitative Software Quality Evaluation Model for the Artifacts of Component Based Development**  
Kilsup Lee  
Korea National Defense University

**16:00 A6 Effective Software Project Management: Issues in Managing Geographically Distributed Clients**  
Talha Javed  
National University of Computer and Emerging Sciences

**B6 Applying SPICE in the Finance Sector**  
Christian Völcker  
SynSpace AG

**C6 Usability Attributes and Measurements of Security Systems**  
Ugo Piazzalunga  
Eutron Infosecurity SRL

**D6 Operational Process and CMMI**  
Tetsutaro Okawa

## 16:30 Coffee Break and Exhibition

### 17:00 Keynote speaker

**Claus E. Heinrich**, The Industrialization of the Software Industry – Implications for Quality Management  
Member of the Executive Board, SAP AG



### 18:00 Exhibitor Reception

## 9:00 Keynote speaker

**Toshinori Kobayashi**, A Strategy for the Improvement of Software Quality and Productivity in Japan  
Japanese Ministry of Economy, Trade and Industry (METI), Japan



## 10:00 Coffee Break and Exhibition

Project Retrospectives	Software Process Benchmarking	Review Techniques, Audits II	Requirements Engineering I	Testing I
<b>10:30 E1 Project Retrospectives</b> Olav Riediger S.E.S.A. AG	<b>F1 TQM Method – A new Process Network Oriented Method</b> Susumu Sasabe NEC	<b>G1 How can we make our Software Reviews effective?</b> Yasuomi Sato	<b>H1 Invited Talk: Requirements for Quality, Quality of Requirements</b> Karol Frühauf INFOGEM AG	<b>I1 Automated Test Method Globalizing Testware</b> Tsunefumi Watanabe
<b>11:00 E2 Test Method Deployment</b> Holger Hanisch Datev eG	<b>F2 An Empirical Case of Software-Intensive System Development based on Rational Unified Process</b> Kilsup Lee Korea National Defense University	<b>G2 Development and Validation of a HAZOP-based Inspection of UML Models</b> Aleksander Jarzabowicz Gdansk University of Technology	<b>H2 Design to Customer at PSE</b> Gernot Moshhammer Siemens AG Österreich – Program and System Engineering	<b>I2 Test and Software Measures for Software Platform Frameworks</b> Markus Prechtel DaimlerChrysler AG
<b>11:30 E3 Practical Experiences in Introducing Efficient Management of Requirements and a Methodological Test Approach in Parallel</b> Edgar Brodde RDS Consulting GmbH	<b>F3 Software Development Effort Estimation based on COCOMO and its Practical Application</b> Takaji Fujiwara Fujitsu Peripherals Limited	<b>G3 Effective Review Procedure</b> Kenichi Koto	<b>H3 The Customization of Requirement Specifications for Software Projects</b> Wen-Kui Chang Tunghai University	<b>I3 Experiences Using TPI in the Automotive Industry</b> Michael Bender Bosch Engineering GmbH

## 12:00 Lunch and Exhibition

Industrial Session				
<b>13:00 ID-F1</b> 30 min <b>BMW AG</b>	<b>ID-G1</b> 30 min <b>ARTiSAN SOFTWARE</b>	<b>ID-H1</b> 30 min <b>iNTACS™</b> International Assessor Certification Scheme	<b>ID-I1</b> 30 min <b>3<sup>rd</sup> World Congress for Software Quality</b>	<b>ID-J1</b> 30 min <b>3<sup>rd</sup> World Congress for Software Quality</b>
<b>13:30 ID-F2</b> 30 min <b>BMW AG</b>	<b>ID-G2</b> 30 min <b>oipcass</b> Das Systemhaus für globale IT-Entwicklungen	<b>ID-H2</b> 30 min <b>Diaz Hilterscheid</b>	<b>ID-I2</b> 30 min <b>METHOD &gt; PARK</b>	<b>ID-J2</b> 30 min <b>ECOLAB</b>

## 14:00 Coffee Break and Exhibition

Estimation	Embedded Software	Measurement and Metrics	Requirements Engineering II	Testing II
<b>14:30 E4 Navigating the Minefield - Estimating Before Requirements</b> <i>Invited Speaker</i> Carol Dekkers, Quality Plus Technologies	<b>F4 Invited Talk: Software Development for Embedded Systems</b> Ernst Schindler BMW IT-Solutions	<b>G4 Enhancing Object-Oriented Cohesion Measures by Emphasizing Write Dependency</b> Heung Seok Chae Pusan National University	<b>H4 Internal Use Cases as a Documentation Aid</b> Adam Sauer ELAXY GmbH	<b>I4 Failure Mode Class Tree: A Source of Test Improvement and Process Improvement</b> Yasuharu Nishi
<b>15:00 E5 Assessments of Development Organizations Through the Use of a Project Related Benchmark</b> Andreas Schmietendorf T-Systems	<b>F5 FAUST – Fully Configurable Automatic Software Test System</b> Anne Kramer SEPP MED GmbH	<b>G5 Study to Secure Reliability of Measurement Data Through Application of Game Theory</b> Sang Pok Ko SAMSUNG Electronics	<b>H5 Generating Simulation and Test Models From Scenarios</b> Jon Whittle QSS Group Inc.	<b>I5 Technical Target Setting Based on Impact Analysis in Software Quality Function Deployment</b> Frank Liu University of Missouri-Rolla
<b>15:30 E6 An Effort Estimation Technique Using a Number of Test Cases Identified by Use-Case Models</b> Kazutoshi Shimanaka	<b>F6 Benchmarking Automotive Software Acquisition Projects</b> Tobias Häberlein DaimlerChrysler AG	<b>G6 Invited Talk: Software Measurement Frameworks</b> Reiner Dumke University of Magdeburg	<b>H6 Rethinking the Notion of Non-functional Requirements</b> Martin Glinz University of Zurich	<b>I6 Creating Effective Load Models for Performance Testing with Incomplete Empirical Data</b> Scott Barber PerfTestPlus

## 16:00 Social Event – Oktoberfest

## Program

## 9:00 Keynote speaker

**Yogesh Gupta**, Chief Technology Officer  
Computer Associates



## 10:00 Coffee Break and Exhibition

## Risk Management

Methodology and  
Tool Rollout

## Selection and Tailoring I

## Model Based Quality

Panel discussion C  
IT Security

Chair: Taz Daughtrey

**10:30 J1 Business Risk Visualization: A Technique to Help Focus Software Testing Effort**  
Krysanne Klassen  
IBM Canada Ltd

**K1 Criteria for Software Testing Tool Evaluation – A Task Oriented View**  
Timea Illes  
Institute for Computer Science,  
University of Heidelberg

**L1 Invited Talk: An Integrated Approach to Quality Improvement**  
Linda Ibrahim  
United States Federal  
Aviation Administration

**M1 MDA++: Combining System Development and Test Development**  
Ina Schieferdecker  
Technical University  
Berlin/Fraunhofer FOKUS

**11:00 J2 Shifting the Risk**  
Andreas Nehfort  
Nehfort IT-Consulting KEG

**K2 How can Test Tools Support TPPI?**  
Frank Schmeißner  
imbus Rhein-Main GmbH

**L2 Appropriate Processes: Tailoring Agile Processes**  
Jan Ittner  
method park Software AG

**M2 Towards Model-based Quality Evaluation of Software Products**  
Paolo Salvaneschi  
University of Bergamo

**11:30 J3 R-LIME: Improving the Risk Dimension in the LIME Model**  
Luigi Buglione  
Ecole de Technologie Superieure (ETS) – Université du Québec

**K3 Improving Test Quality by Simultaneous Design Using Tool "F2T"**  
Noriko Iizumi

**L3 Perspective-based Evaluation of Software Process Management Tool Suites**  
Ninie Angkasaputra  
Fraunhofer IESE

**M3 From Analysis to Testing – Tracking of Requirements in UML**  
David Kreische  
imbus AG



## 12:00 Lunch and Exhibition

## Industrial Session

13:00 ID-K1



ID-L1



ID-M1



ID-N1



ID-O1



13:30 ID-K2

30 min



ID-L2

30 min



ID-M2



ID-N2



ID-O2



## 14:00 Coffee Break and Exhibition

## Human Management

## Agile Methods

## Selection and Tailoring II

## Configuration Management

Panel discussion D  
Software Patents

Chair: Christoph Witte  
Chief Editor, Computerwoche

**14:30 J4 Deploying Guerilla Quality – Modern Techniques for Quality Initiatives**  
Jeff Fiebrich  
Freescale Semiconductor, Inc.

**K4 Invited Talk: Agile Methods**  
Werner Mellis  
University of Cologne

**L4 Systematic Tailoring of Quality Techniques**  
Kurt Schneider  
University Hannover

**M4 Invited Talk: Adding Value through Configuration Management**  
Anne Mette Jonassen Hass  
DELTA

**15:00 J5 Quality of Team Building: Measurable Quality of Team Building with Partner Satisfaction**  
Yukiko Enokida

**K5 The Mature Approach to Agility**  
Han van Loon  
Leistungs Consult GmbH

**L5 The Business Model's Establishment in Loan of Development Environment by Outsourcing in China**  
Kazunori Mita

**M5 A Configuration Management Framework Supporting Evolution of Components**  
Xin Peng  
Fudan University

**15:30 J6 Invited Talk: Certified Software Quality Engineer**  
Patricia McQuaid  
California Polytechnic State University

**K6 Agile Software Development within a QM System**  
Siegfried Zopf  
Siemens AG

**L6 Invited Talk: V-Model XT**  
Andreas Rausch  
University of Kaiserslautern

**M6 An Approach to Improving Software Project Management by Utilizing Data from SCM Systems**  
Minoru Aizawa  
TOSHIBA

**Yogesh Gupta**  
Chief Technology Officer  
Computer Associates  
**Christian Ehler**  
Member of the European  
Parliament  
**Marc Laudien**  
Attorney at Law  
Laudien & von Nottbeck

## 16:00 Coffee Break and Exhibition

## 16:30 Keynote speaker

**Thomas J. McCabe**, How to have Outsourcing enhance Careers, rather than dismantle them  
CEO, McCabe Technology



## 17:30 until 18:00 Closing Session

**Bernd Hindel**, Best Paper and Best Presentation Awards  
**Taz Daughtrey**, "Call for 4th WCSQ in 2010 in USA"

Any updates to the program  
can be found on our website at [www.3wcsq.org](http://www.3wcsq.org).



# Conference Location

Faculty of Mechanical Engineering

Technical University Munich

Boltzmannstraße 15, 85748 Garching/Munich, Germany



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## Organizer

iSQI

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