

Tutorial A1 & A2

WED, JULY 6

### Dr Tafline Murnane

#### Effective Selection & Use of Black Box Testing Techniques

Black-box testing methods are effective yet incomplete. Consequently, test engineers may find it necessary to perform ad hoc customisation for each application under test.

This tutorial presents procedures for customising black-box methods that model such "error guessing" in a reproducible and reusable way. The procedures facilitate the development of both domain-specific and novel experimental black-box methods.

Tutorial B1 & B2

WED, JULY 6

### Stuart Reid

#### Testing In Agile Project

Learn in great details various aspects of Agile Development and Testing – from the basics on methodology and testing in an agile project, to understanding and weighing the options, and to managing communications, agile teams and other resources.

Despite its growing popularity, those advocating an agile approach still needs to be able to provide evidence to justify its take up to higher management. This session will provide data on the take-up and success of agile projects in the industry as a whole and guidance on how to identify appropriate projects for agile development.

TUTORIAL C1 & C2

WED, JULY 6

### Cris Rupp & Stefan Strum

#### Cultures Speaking the Same Requirements: All around the Certification for the “Certified Professional for Requirements Engineering”

Companies throughout the world are realising requirements engineering (RE) is an important approach for leading projects to success. There are many different ways to carry out requirements engineering and thus, particularly in international or locally distributed projects, there is often the problem whether the programmer in, e.g. Asia, really understands what the analyst from Berlin has specified.

This lecture will tell you all around the IREB, the certification, the trainings, the examination procedure and the exam questions. It will also tell you about the relevance of requirements engineering for a project's success, based on some studies

TUTORIAL D1 & D2

WED, JULY 6

### Chandy Little John

#### Use of Project Management to Align Software Testing With Business Outcomes

Project management in software testing relates to the activities of analysing, planning, organising, allocating and managing the resources needed to enable the successful development and testing of software designed to fulfil business goals and objectives.

One of the main challenges of project management in software testing is to achieve all of the project's goals on time and within budget, while at the same time meeting the testing constraints and business requirements.

This session will provide lessons learnt from real project experience.

Tutorial E1 & E2

WED, JULY 6

**Dr. Robin Suzanne Poston**

Systems Testing in the SDLC

The session will cover the main topics of Testing in Structured Design, Tester in the SDLC and Testing in Rapid Application and Agile Development.

The objectives are to learn the system testing phases as well as understand testing in structured design, the role of the tester in the SDLC, testing in rapid application and agile development, and in enterprise systems development

Tutorial F1 & F2

WED, JULY 6

**Geoff Thompson**

TMMi Workshop

Over the decades there have been many process improvement models, including SPICE, CMM and CMMi. These models focus on helping organisations improve their overall software engineering process capabilities, but don't cover testing and software quality processes in sufficient detail. This is where the Testing Maturity Model integrated (TMMi) can help.

The aim of this workshop is to provide background and to help the attendees understand how to deliver qualitative and quantitative process improvements using the TMMi model. It explains in detail what TMMi is, and why it is different from other models.

Tutorial G1

WED, JULY 8

**Mette Bruhn-Pederson**

Test Environments - The Achilles' Heel of Test

Testers and test manager spend a lot of time on planning, preparing, and executing our tests in order to find defects and to mitigate risks. There are many different techniques that help us ensure the best coverage with the time and people available. But is this effort well spent if we do not have proper test environments? What have we actually verified? Is the result valid for the production environment as well?

You will learn different approaches for building and maintaining test environments, so you can analyze the situation in your team, project, or company and suggest ways to improve. The goal is to get you started on the process to cover up your Achilles' heel of test.

Tutorial G2

WED, JULY 8

**Brian Robinson**

Understand the Mind of a Developer

Developers are a very special group of people. Of course, it's a generalisation, but there are several characteristics that are common to many developers. Building a good rapport with developers is essential to maintaining a good relationship whilst we work together to developer's work, understanding how they tick is essential to this.

Understanding the developer mind will allow us as testers to aim for certain areas of application systems to find the type of errors that developers all over the world make time and time again.

Among others, this tutorial aims to provide a quick insight into what drives developers and what turns them off.

0900 - 0915	Welcome Speech by President of MSTB - Puan Mastura Abu Samah
0915 - 0925	Keynote Speech by Guest of Honour - Y.B. Datuk Haji Fadillah bin Haji Yusof, Deputy Minister of Science, Technology and Innovation
0925 - 0935	Keynote Speech by EPU (Director-General) - Dato' Noriyah Ahmad
0935 - 1045	Keynote Speech 1: Capers Jones, President of Caper Jones & Associates LLC, USA <b><i>Software Quality 2011: A Survey of the State of the Art</i></b>
1045 - 1100	Morning break
1100 - 1140	Keynote Speech 2: Christ Rupp, President IREB <b><i>Behaviour Patterns In Systems Development - How You Avoid Success – Impeding Patterns Of Behaviour In Your Project.</i></b>
1140 - 1210	Keynote Speech 3: Geoff Thompson Chairman, UK Testing Board <b><i>If Only We Could Make Them Listen</i></b>
1210 – 1240	Keynote Speech 4: Gary Gack, Founder/President of Process-Fusion.net, USA <b><i>Modelling Software Quality</i></b>
1240 - 1415	Lunch break
1415 – 1445	Keynote Speech 5: Dr James Hill, Indiana University/Purdue University, USA <b><i>Early QoS Validation for the RE System</i></b>
1445 – 1515	Keynote Speech 6: Stuart Reid, Senior Lecturer, Cranfield University, UK <b><i>Software Testing &amp; Innovation</i></b>
1515 – 1545	Keynote Speech 7: Anne Matte Jonassen Haas, Senior Consultant, Devoteam Consulting, Denmark <b><i>Using Test Policy &amp; Test Strategy to Get It Right</i></b>
1545 – 1615	Keynote Speech 8: Associate Prof. Dr Kamal Zuhairi Zamli, USM <b><i>On (Sequence-less and Sequence) Based Combinatorial Testing: Uniform Strength, Variable Strength, and Input Output Based Relations</i></b>
1615 – 1630	Coffee break
1630 - 1730	Expert Panel Session: <b><i>Testing It Right</i></b> Panellists: Chandy LittleJohn, President PMI Memphis, USA Capers Jones, President of Caper Jones & Associates LLC, USA Christ Rupp, President IREB Gary Gack, Founder/President of Process-Fusion.net, USA Moderator: Prof Jasbir Dhaliwal, Head, Software Testing Excellence Program (STEP), University of Memphis, USA
1730 – 1745	Closing Remarks: MSTB President

WORKSHOP A1 & A2

FRI, JULY 8

### Capers Jones

#### Multiple Topics on Software Quality

This workshop will cover five topics: Software Defect Removal, Measuring Software Quality and Customer Satisfaction, Software Assessments: History and Usage and Software Excellence.

Discussions are supported by statistical data and other facts. Through the five segments, participants should be able to gain good understanding on issues and considerations relevant to software quality as well as on some of the established methodologies and tools for achieving quality excellence.

WORKSHOP B1 & B2

FRI, JULY 8

### Gary Gack

#### Combinatorial Test Design Methods

In this session participants will be introduced to what some refer to as a “mathematical” or “scientific” approach to development of software test plans and cases. This approach to test design is more generally known as a “combinatorial” method .

In this session participants will learn how these closely related concepts differ from one another and will gain hands-on experience with one tool that supports this method. Other tools supporting this method will be briefly described and contrasted. The workshop will include a “hands-on” session on a tool (Hexawise) to create real test plans.

WORKSHOP C1 & C2

FRI, JULY 8

### Wonil Kwon

#### The Core of Software Testing Process Assessment with TMMi Case Study and the International Standard: ISO/IEC 33063

Internationally recognised and accredited software test process is ultimately essential in order to objectively assess test processes and further improve them. This is because software test process has been complicated and more testing focused organisations have been coming into existence for obtaining better software quality.

With this necessity, The TMMi (Testing Maturity Model integration) case study will be introduced to show the value of testing process assessment. Then newly establishing international standard, ISO/IEC 33063: Process Assessment Model (PAM) for Software Testing, will be presented and discussed.

WORKSHOP D1 & D2

FRI, JULY 8

### Dr James Hill

#### Early QoS Testing and Validation Techniques for Networked System

Networked or distributed systems are increasing in both size and complexity. Waiting too late into the software lifecycle to test and validate their Quality-of-Service (QoS) properties, such as performance, scalability and reliability, can make locating and resolving QoS bottlenecks both a costly and time-consuming process .

This tutorial presents the latest methods and tools for testing and validating distributed system QoS properties during early phases of the software lifecycle, and continuously throughout it. The methods and tools discussed in this workshop have been validated in the context of represented distributed systems from various application domains.

WORKSHOP A1 & A2

FRI, JULY 8

**Mette Bruhn-Pederson & Brian Robinson**

From Tester Childhood to Adult

As testers we face many challenges. Perhaps you recognise at least one of the following

- Working with unclear or missing requirements
- Working to extremely tight deadlines
- Not permitted to deliver with the right quality
- Perceived as a necessary evil

Overcoming these challenges requires a mature approach. We have experienced how a move from tester childhood to adult has helped us to deal more effectively with the problems we face. This workshop aims to explore how we react in different situations, identify how we would prefer to experience these situations and practice the use of some therapeutic tools to develop a more positive and effective behaviour.

WORKSHOP B1 & B2

FRI, JULY 8

**Anne Matte Jonassen Hass**

Risk Based Testing

In practice, a product can have astronomical numbers of input combinations and 100% test is not possible. Software testing is (therefore) sample control. Testing should be directed by risks and willingness to run risks. Risk categories include the business, processes, the project and the product.

If a risk is realised, this will result in disappointment – or what's worse, in software development, many may be affected such as the company management, the project management, the project participants, the customer, the users and other stakeholders. Learn the approaches to manage the different types of risks.

WORKSHOP G1

FRI, JULY 8

**Bart Dahmer**

Decoupled Testing

FedEx IT teams are creating award-winning, strategic approaches to address critical business issues through decoupled testing and software release strategies. Every year, FedEx manages multiple large-scale, highly complex software deployments with aggressive launch dates to meet customer needs.

An innovative, software release management strategy now allows major FedEx initiatives and components to decouple from the release if issues arise. The strategic approach allows FedEx to pursue high-risk and complex business initiatives, while maintaining acceptable risk levels for the overall release.