

# The Sixth International Software Quality Week

May 25 - 28, 1993

Sheraton Palace Hotel, #2 Montgomery Street, San Francisco, CA

## Final Program and Session Schedule

### TUTORIALS AND CONFERENCE MASTER SCHEDULE

TUESDAY, 25 MAY 1993 - HALF-DAY TUTORIALS					
TIMES	TUTORIAL A	TUTORIAL B	TUTORIAL C	TUTORIAL D	TUTORIAL E
8:30 - 10:00	<b>B. Beizer</b> <i>Overview of Software</i>	<b>B. Marick</b> <i>Three Ways to</i>	<b>M. Migdoll</b> <i>Introducing Change</i>	<b>S. Siegel/B. Silver</b> <i>Applying Total Quality</i>	<b>T. Gilb</b> <i>Advanced</i>
Coffee Break	<i>Test Techniques</i>	<i>Improve Your Testing</i>	<i>Into Testing</i>	<i>Optimization to Testing</i>	<i>Software Inspections</i>
10:30 - 12:00	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
12:00 - 1:30	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH
	TUTORIAL F	TUTORIAL G	TUTORIAL H	TUTORIAL I	TUTORIAL J
1:30 - 3:00	<b>M. Mac-an-Airchinnigh</b> <i>Formal Methods and</i>	<b>B. Curtis</b> <i>Superior Software</i>	<b>A. Shah-Jarvis</b> <i>Applying</i>	<b>B. Silver/S. Siegel</b> <i>Applying Total Quality</i>	<b>B. Wachtel</b> <i>Software Change —</i>
Refreshments	<i>Testing Tutorial</i>	<i>Organizations</i>	<i>Metrics</i>	<i>Optimization to Testing</i>	<i>Guide for Improvement</i>
3:30 - 5:00					

### CONFERENCE PROGRAM

WEDNESDAY, 26 MAY 1993 - PLENARY SESSION	
TIMES	PLENARY SESSION #1: (Papers 1-1, 1-2, 1-3, 1-4)
8:30 - 10:00	<b>Dr. Edward Miller:</b> <i>Conference Introduction</i> <b>Dr. Boris Beizer:</b> <i>Two Retrospectives From the Year 2001</i> <b>Prof. John Munson:</b> <i>The Manufacture of Reliable Software</i>
10:00 - 10:30	COFFEE BREAK
10:30 - 12:00	<b>Dr. William Howden:</b> <i>Scientific Foundations for Practical Software Testing and Analysis</i> <b>Mr. Bill Curtis:</b> <i>Superior Software Organizations</i> <b>Dr. Edward Miller:</b> <i>Conference Overview</i>

### CONFERENCE LUNCH

WEDNESDAY, 26 MAY 1993 - AFTERNOON SESSIONS			
TIMES	TECHNOLOGY (2-T)	APPLICATIONS (2-A)	MANAGEMENT (2-M)
1:30 - 3:00	<b>Reverse Engineering</b> <b>R. Shelton:</b> <i>An Object-Oriented Method for Enterprise Modeling: OEM</i> <b>R. Sharma:</b> <i>Code Inspection in SDE's</i>	<b>Case Studies</b> <b>J. Ambrose &amp; M. Pham:</b> <i>Automated Firmware Testing Using Simple Test Scripts</i> <b>M. Fewster:</b> <i>100% Automated Testing: A Case History</i>	<b>T. Gilb:</b> <i>Practical Software Metrics for Software Process and Product Quality</i> <b>SPECIAL 90-MINUTE MINI-TUTORIAL</b>
3:00 - 3:30	REFRESHMENTS	REFRESHMENTS	REFRESHMENTS
3:30 - 5:00	<b>Novel Tool Approaches</b> <b>V. Crandall:</b> <i>Risk Analysis in Software Development</i> <b>O. Poutanen:</b> <i>TBGEN System, A Portable Test Harnessing Tool for Ada: Design/Implementing Consideration</i>	<b>Risk Management Approaches</b> <b>D. Hoshizaki:</b> <i>Risk Based Testing Application Testing</i> <b>G. Pope:</b> <i>Bug-o-nomics</i>	<b>Life Cycle Issues</b> <b>J. Hops:</b> <i>Formal Functional Test Designs: Bridging the Gap Between Test Requirements and Specifications</i> <b>G. Iacono:</b> <i>Automating Test Database Management for Productivity</i>

CONFERENCE MASTER SCHEDULE

**THURSDAY, 27 MAY 1993 - MORNING SESSIONS**

TIMES	TECHNOLOGY (3-T)	APPLICATIONS (3-A)	MANAGEMENT (3-M)
8:30 - 10:00	<b>Deep Testing Techniques</b> H. Hecht: <i>Rare Conditions — An Important Cause of Failures</i> K. Tai: <i>How To Test Compound Predicates in Programs?</i>	<b>Automation Advances</b> M. Harrold: <i>A System for Testing and Analysis of C Programs</i> N. Thuy: <i>Design for Quality in Large Object Oriented Software Systems</i>	<b>System Test Planning</b> S. Pearson: <i>Test Planning in an Information Engineering Environment</i> D. Hoffman: <i>The Software Quality Group's Relationship to Development</i>
10:00 - 10:30	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK
10:30 - 12:00	<b>Advanced Approaches</b> B. Bently: <i>Information Flow Analysis</i> A. Parrish: <i>Implementation-Based Testing for Abstract Data Types</i>	M. Bergman: <i>Automated Testing Interacting with Debugging</i>  <b>SPECIAL 90-MINUTE MINI-TUTORIAL</b>	<b>Process Improvement</b> J. Tierney: <i>Eradicating Software Mistakes from Your Software Process Through Poka Yoke</i> K. King: <i>Implementing Software Process Improvement</i>

CONFERENCE LUNCH

**THURSDAY, 27 MAY 1993 - AFTERNOON SESSIONS**

TIMES	TECHNOLOGY (4-T)	APPLICATIONS (4-A)	MANAGEMENT (4-M)
1:30 - 3:00	<b>Path Analysis Methods</b> A. Bertolino: <i>Path Analysis and Experimentation on Path Coverage via Minimum Test Covers</i> D. Zimmerman: <i>Feasible Path Analysis for Test Case Generation</i>	<b>Integrated Environments</b> J. Laski: <i>An Integrated Approach to Software Testing and Analysis</i> C. Haapala: <i>Iterative Software Development: Achieving Quality Through Verification and Validation</i>	<b>Defect Tracking</b> G. Daich: <i>Technology Infusion into the Software Test Process</i> J. Wojtusiak: <i>Knowledge and Skills: Two Keys to Unlocking the Defect Prevention Process</i>
3:00 - 3:30	REFRESHMENTS	REFRESHMENTS	REFRESHMENTS
3:30 - 5:00	<b>Tool-Oriented Experience</b> S. Malaney: <i>DARTS: An Automated Feature Test System for a Digital Central Office Switching System</i> N. Peccia: <i>Automatic Tools for Software Testing</i>	E. Miller: <i>Automated Testing: Experience from the Field</i>  <b>SPECIAL 90-MINUTE MINI-TUTORIAL</b>	<b>Setting Process Standards</b> Y. Mayadoux: <i>Experience and Results Gained from the DARTS Project</i> F. Luppino: <i>IBM-FSC Software Testing Policies and Standards</i>

**FRIDAY, 28 MAY 1993 - MORNING SESSIONS**

TIMES	TECHNOLOGY (5-T)	APPLICATIONS (5-A)	MANAGEMENT (5-M)
8:30 - 10:00	R. Hamlet & J. Voas: <i>Software Reliability and Testability</i>  <b>SPECIAL 90-MINUTE MINI-TUTORIAL</b>	<b>GUI Testing Issues</b> W. Wolters: <i>Testing GUI Displays at the User's High-Level View</i> S. Norman: <i>Testing is a Sticky Business</i>	<b>Process Assessment</b> R. Wilson: <i>Load and Stress Testing Approaches</i> F. Ficheux-Vapne: <i>Software Capabilities Assessment</i>
10:00 - 10:30	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK

**FRIDAY, 28 MAY 1993 - PLENARY SESSION**

TIMES	PLENARY SESSION #2: (Papers 6-1, 6-2, 6-3)
10:30 - 1:00	Dr. Paul Oman: <i>Exploiting Software Test Tools Throughout the Life Cycle</i> Mr. Shel Siegel: <i>Strategies for Testing Object-Oriented Software</i> Dr. Dorothy R. Graham: <i>Where is CAST Heading? Directions and Trends for Testing Tools</i> Dr. Edward Miller: <i>Conference Conclusion</i>