

## • • • • TUTORIALS AND CONFERENCE MASTER SCHEDULE • • • •

### Tutorial Descriptions:

*Overview of Test Techniques* by Dr. Boris Beizer reviews the basics of testing techniques.

*Introduction to Statistical Testing* by Dr. John Munson explores using statistical testing and reliability analysis methods to predict software error rates.

*The Art of Writing a Successful Test Plan* by Ms. Alka Shah-Jarvis explains how to write a successful test plan which can be used to control project testing.

*Hierarchical Software Metrics* by Dr. Ronald Prather offers a guided tour through the growing and increasingly important literature on hierarchical software metrics.

*CASE Testing: Integration & Consolidation Issues* by Dr. Edward Miller explains how to apply modern CASE-based automated test technology and tools to practical hi-tech testing problems.

*Reliability Engineering: Technology for the 90's* by Mr. Geoffrey Wilson surveys

software reliability engineering (SRE), its applications, and activities, indicating where in the software life cycle the different activities apply.

*Testing and QA in the CASE Environment* by Mr. Denis Meredith addresses the issue of software quality and testing in the CASE environment.

*Getting Metrics Into the Workplace* by Mr. Darl Patrick discusses some of the problems of identifying metrics and convincing management to support metrics.

### TUESDAY, 19 MAY 1992 - HALF-DAY TUTORIALS

TIMES	TUTORIAL A	TUTORIAL B	TUTORIAL C	TUTORIAL D
8:30 - 10:00	B. Beizer <i>Overview of Test Techniques</i>	J. Munson <i>Introduction to Statistical Testing</i>	A. Shah-Jarvis <i>The Art of Writing a Successful Test Plan</i>	R. Prather <i>Hierarchical Software Metrics</i>
Coffee Break				
10:30 - 12:00				
12:00 - 1:30	LUNCH	LUNCH	LUNCH	LUNCH
	TUTORIAL E	TUTORIAL F	TUTORIAL G	TUTORIAL H
1:30 - 3:00	E. Miller <i>CASE Testing: Integration &amp; Consolidation Issues</i>	G. Wilson <i>Reliability Engineering: Technology for the 90's</i>	D. Meredith <i>Testing and QA in the CASE Environment</i>	D. Patrick <i>Getting Metrics Into the Workplace</i>
Refreshments				
3:30 - 5:00				

## • • • • CONFERENCE PROGRAM • • • •

### WEDNESDAY, 20 MAY 1992 - PLENARY SESSION

TIMES	PLENARY SESSION #1: (Papers 1-1, 1-2, 1-3,1-4)
8:30 - 10:00	Dr. Edward Miller: <i>Conference Introduction</i> Mr. Michael Dyer: <i>Statistical Approaches to Software Testing: A Further Demand on CASE Tools</i> Prof. John Munson: <i>Software Measurement and Software Testing</i>
10:00 - 10:30	COFFEE BREAK
10:30 - 12:00	Dr. Mike Tortorella: <i>Reconstructing the Paradigm: A Look at Software Reliability Management</i> Dr. Boris Beizer: <i>Don't Do That Cost-Benefit Analysis!</i> Dr. Edward Miller: <i>Conference Overview</i>

## • • • • CONFERENCE LUNCH • • • •

### WEDNESDAY, 20 MAY 1992 - AFTERNOON SESSIONS

TIMES	TECHNOLOGY (2-T)	APPLICATIONS (2-A)	MANAGEMENT (2-M)
1:30 - 3:00	Experience Driven Tools A. Godambe: <i>Data Driven Tools for Determining Testing Effort Needed for Large Software Product Release</i> B. Sherlund: <i>A Modification Oriented Regression Testing Tool</i>	Process Modifications T. Clinton: <i>IV&amp;V Acceptance Testing: Using Risk Analysis</i> B. Kolkhorst: <i>Highly Reliable Software: The Requirement Beyond CASE</i>	M. Bergman & K. Stobie: <i>How to Automate Testing: The Big Picture</i> <b>SPECIAL</b> 90-MINUTE MINI-TUTORIAL
3:00 - 3:30	REFRESHMENTS	REFRESHMENTS	REFRESHMENTS
3:30 - 5:00	Hi-Tech Approaches P. Schneck: <i>Virtually Defect-Free Code Through Testing</i> J. Francioni: <i>Using Auditory Displays to Understand and Test Parallel Programs</i>	Applying Test Methods E. Miller: <i>Applying Automated Test Methods</i> S. Siegel: <i>Strategies for Testing Object Oriented Software</i>	Technology Injection G. Pope: <i>Debugging America</i> R. Birss: <i>Test Coverage For Fun and Profit</i>

o o o **VENDOR SHOWCASE: Thursday, 21 May 1992: 10:00 a.m. - 6 p.m.** o o o

<b>THURSDAY, 21 MAY 1992 - MORNING SESSIONS</b>			
<b>TIMES</b>	<b>TECHNOLOGY (3-T)</b>	<b>APPLICATIONS (3-A)</b>	<b>MANAGEMENT (3-M)</b>
8:30 - 10:00	<b>Novel Tool Approaches</b> J. Voas: <i>A Technique for Predicting Semantic Software Testability</i> J. Maybee: <i>MOTHER: A Test Harness for a Project with Volatile Requirements</i>	<b>Industrial Experience</b> J. Hage: <i>A Quality Approach to Testing Computer Software</i> B. Thien: <i>Experiences with Defect Analysis</i>	<b>Implementing CASE</b> D. Hoffman: <i>Preparing an Organization for CASE</i> B. Stahl: <i>A Quick Course in Negotiations: How To Get the Testing Resources That You Need</i>
10:00 - 10:30	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK
10:30 - 12:00	<b>GUI Testing</b> W. Wolters: <i>Automated GUI Display Testing of a Large Network Management System</i> N. Winston: <i>Benefits of GUI Testing: Catching Bugs Earlier</i>	<b>V. Crandall: <i>An Overall Strategy for Testing Software</i></b>  <b>SPECIAL 90-MINUTE MINI-TUTORIAL</b>	<b>CASE vs. Process</b> M. McFarlane: <i>Software Internal Quality</i> B. Wachtel: <i>Change Management with CASE</i>

o o o **CONFERENCE LUNCH** o o o

<b>THURSDAY, 21 MAY 1992 - AFTERNOON SESSIONS</b>			
<b>TIMES</b>	<b>TECHNOLOGY (4-T)</b>	<b>APPLICATIONS (4-A)</b>	<b>MANAGEMENT (4-M)</b>
1:30 - 3:00	<b>Testing OOP's</b> N. Thuy: <i>Testability and Unit Tests in Large Object Oriented Software</i> M-J. Harrold: <i>Incremental Testing of Class Structures</i>	<b>CASE Experiences</b> R. Palmer: <i>A Software Quality Database to Support the Software Life Cycle</i> B. Stephen: <i>Realizing the CASE Advantage</i>	<b>Impact of Process Change</b> D. Wildfogel: <i>Dynamic Testing</i> M. Migdoll: <i>Introducing Change Into the Testing Process</i>
3:00 - 3:30	REFRESHMENTS	REFRESHMENTS	REFRESHMENTS
3:30 - 5:00	<b>B. Bently: <i>Testing Object Oriented Languages</i></b>  <b>SPECIAL 90-MINUTE DEBATE</b>	<b>Industrial Experience</b> W. Utz: <i>Software Technology Transitions: Making a Quality Transition to Software Engineering</i> D. Patrick: <i>Moving Towards Zero Defect Software</i>	<b>Test Process Specifics</b> M. Pasterick: <i>Improving the Testing Process Through Improving the Overall Development Process</i> F. Luppino: <i>Software Testing Process</i>

<b>FRIDAY, 22 MAY 1992 - MORNING SESSIONS</b>			
<b>TIMES</b>	<b>TECHNOLOGY (5-T)</b>	<b>APPLICATIONS (5-A)</b>	<b>MANAGEMENT (5-M)</b>
8:30 - 10:00	<b>Applying Slice Techniques</b> K. Gallagher: <i>Using Decomposition Slicing to Simplify Maintenance</i> J. Lyle: <i>Using Program Slicing and Dicing in Debugging</i>	<b>Strategic Issues</b> R. Wilson: <i>Testing Strategies for System Software Integration</i> J. Antonevitch: <i>Optimization Techniques for Test Planning and Management</i>	<b>B. Silver: <i>High Satisfaction Software Support</i></b>  <b>SPECIAL 90-MINUTE MINI-TUTORIAL</b>
10:00 - 10:30	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK

<b>FRIDAY, 22 MAY 1992 - PLENARY SESSION</b>	
<b>TIMES</b>	<b>PLENARY SESSION #2: (Papers 6-1, 6-2, 6-3,)</b>
10:30 - 1:00	Mr. Earl Lee: <i>Using Testing Resources for Defect Prevention</i> Prof. Lee J. White: <i>Software Maintenance Must Provide Systematic Regression Testing Including Testing Global Variables</i> Mr. Rodger Drabick: <i>A Process Model for Formal Testing</i> Dr. Edward Miller: <i>Conference Conclusion</i>