IEEE SW Test Workshop
Semiconductor Wafer Test Workshop

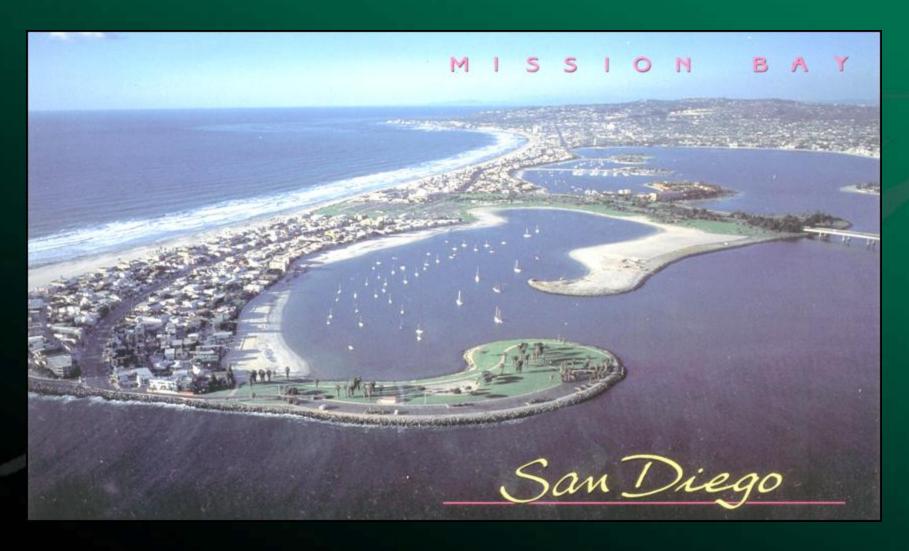
Jerry Broz, Ph.D.
General Chair
SW Test Workshop



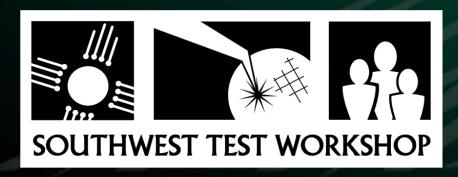
Welcome to the IEEE SW Test Workshop

June 3-6, 2007 San Diego, CA USA

17th Annual SWTW



- New Name
 - IEEE Southwest Test Workshop is now the IEEE
 Semiconductor Wafer (SW) Test Workshop.
 - IEEE SW Test Workshop (SWTW)
- New Logo







- Record Number of Submissions ...
 - 9 Technical Sessions
 - Total of 31 Podium Presentations
 - 2 Poster Sessions
 - Total of 12 Poster Presentations
 - Select presentations eligible for presentation during the SEMI TechXPOT Program at SEMICON-West.
- Products / Services EXPO 2007
 - SOLD OUT! (... thanks! ...)
 - Expanded to 40 full size booths

Corporate Supporter Program (... thanks!...)















- New General Chair
 - Jerry Broz, Ph.D. (International Test Solutions)
 - Technical Program Chair for past 7-years
- New Chair Emeritus
 - William Mann
 - General Chair for past 16 years
- New Technical Program Chair
 - Brett Crump (Micron Technologies)

What's the Same for 2007?

- SWTW IS a Probe Technology Forum ...
 - <u>"THE"</u> Conference for Wafer Test Professionals
 - Practical solutions to real problems
 - Sponsored by the IEEE Computer Society and the Test Technology Technical Council
 - A balance mixture of semiconductor manufacturer and supplier presentations
- Informal Conference
 - Great social activities and informal discussions
 - Meet new people and have a little fun!

"Who's Fault Is It?"

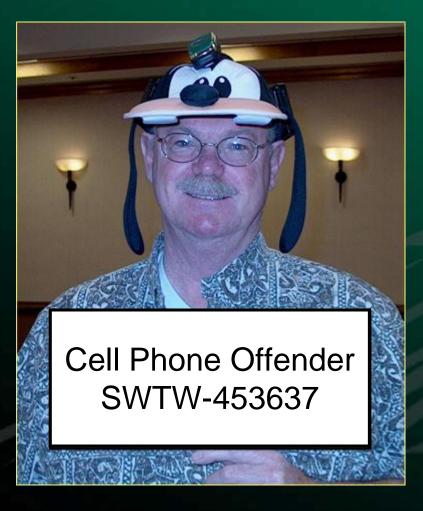
- Organization and Technical Program
 - Jerry Broz, Ph.D., International Test Solutions, General Chair
 - William Mann, Chair Emeritus
 - Brett Crump, Micron Technologies, Program Chair
 - Maddie Harwood, CEM Inc., Registration and Finance Chair
 - Meredith Griffith, CEM Inc., Exhibits / Registration Coordinator

Steering Committee

- Nadine Aldahhan, Freescale
- Jack Courtney, IBM
- Warren "Stu" Crippen, Intel
- Michael Egloff, AMD
 - EXPO 2007 Coordinator
- Michael Harris, Texas Instruments
- Ken Karklin, Touchdown Technologies
 - Program Committee

- Ger Koch, NXP Semiconductor
- Patrick Mui, JEM America
 - Program Committee
- Rey Rincon, Integrated Test Corp.
- Roger Sinsheimer, Xandex
 - Program Committee
- Fred Taber, BiTS Workshop
 - Proceedings Coordinator
- Bill Williams, At Large

Silence your cell phone !!!





- Sunday, June 3, 2007
 - Tutorial w/ 3 presentations
 - Registration and Cocktails
 - Dinner
 - Probe Year In Review
 - Keynote …

"Working with Suppliers to Reduce the Cost of Test"

Vikas Sharma

Intel Wafer Test Manager Sort Test Technology Development

- Monday, June 4
 - Continental Breakfast
 - Probe to Pad Contact Mechanisms
 - Controlling Pad Damage
 - Lunch
 - Strategic Design Methodologies
 - Large Area Array Probing
 - Exhibits Open From 6:00 to 9:00 PM
 - Carving Stations Dinner
 - Probe Engineer Pentathlon at the Barefoot Bar

- Tuesday, June 5
 - Continental Breakfast
 - Advanced Probe Card Technologies
 - RF Probing
 - Lunch
 - Probe Potpourri
 - Exhibits Open from 3:00 to 5:00 PM
 - Two Poster Sessions from 3:00 to 5:00 PM
 - Reception, Dinner, Seal and Shamu Show
 - Busses depart for Sea World at 6:00PM

- Wednesday, June 6
 - Three chances to win a 4-GB Apple iPOD
 - Must be present be present to win!
 - Continental Breakfast
 - Probe Interfaces and Connectivity
 - Probe Challenges
 - Best Presentations Awards
 - Adjournment and Lunch

Pentathlon at Barefoot on Monday

- Great Events
 - Energy Loss and Dampening Challenge
 - Aeronautical Projectile Challenge
 - Dimpled Sphere Rolling Challenge
 - Laminar Vortex Ring Accuracy Challenge
 - Dreaded Synthetic Siege Engine Challenge
- Great Prizes!
 - Bragging rights (of course)
 - Awards on Wednesday

Sneak Preview



Tuesday Program

- Relaxed networking
- Private reception
- Buffet Dinner
- Seal and Shamu Shows







http://www.swtest.org

- Central Online Repository
 - Past presentations
 - Online registration
 - Most current news for SW Test Workshop
 - Sign up for our mailing list
- Tremendous continued success !!
 - Over ninety-five thousand visits!

Recognition & Awards

- Best Overall Presentation
- Best Data Presented
- Most "Inspirational" Presentation
- Best Presentation, Tutorial in Nature
- Other "Special Awards"

SWTW-2006 Awards

Co-Winners - Best Overall Presentation

"Parametric Study of Contact Fritting for Improved CRES Stability"

Dr. Christian Degen, Oliver Nagler, Michael Horn, Dr. Florian Kaesen Infineon Technologies AG

"Fritting – Experiences with Non-ohmic CRES while Wafer Test Probing"

Jan Martens
Philips Semiconductors – Hamburg

Winner - Best Data Presentation

"Key Methods in Reducing Pad Crack Risk at Probing Low-k Wafers"

Frank Hwang, Steve Hsu, J. H. Chen TSMC

Dean Yang, Wensen Hung, Jacky Tsai Micronics Japan Co. LTD

June 3-6, 2007

IEEE SW Test Workshop



SWTW-2006 Awards

Winner - Most Inspirational Presentation

"Novel Methodologies for Assessing On-line Probe Process Parameters"

Jerry Broz, Ph.D., Brice Blanc, Gene Humphrey (ITS) Rhett Moore (Micron Technologies) Patrick Mui (JEM – America)



Winner - Best Presentation, Tutorial in Nature

"Lessons Learned Probing Power Management Devices in a Multi-DUT Test Format"

Paul O'Neil Cascade MicroTech - Europe



The "Special" Award



"What A Load Of Crap!"

For the Poorest Disguised Sales Pitch

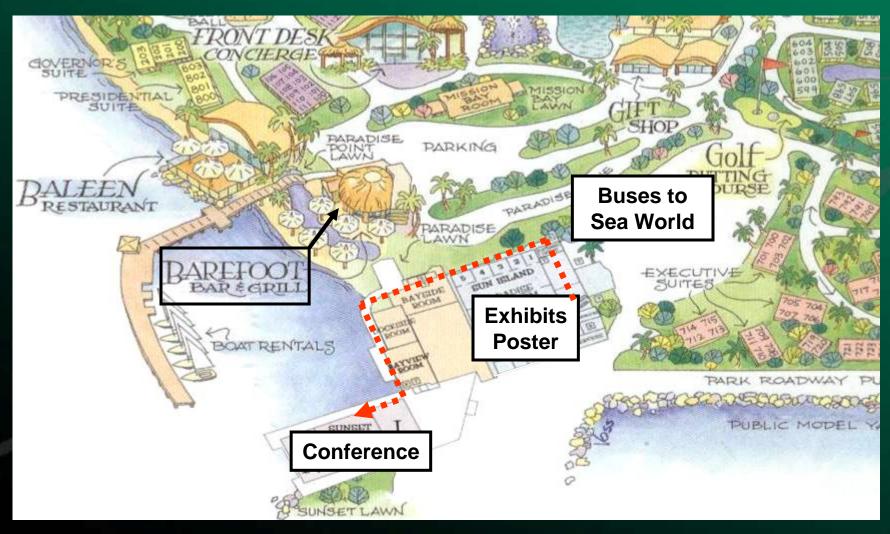
"What happens at SWTW stays at SWTW!"

EXPO 2007 – Exhibitors

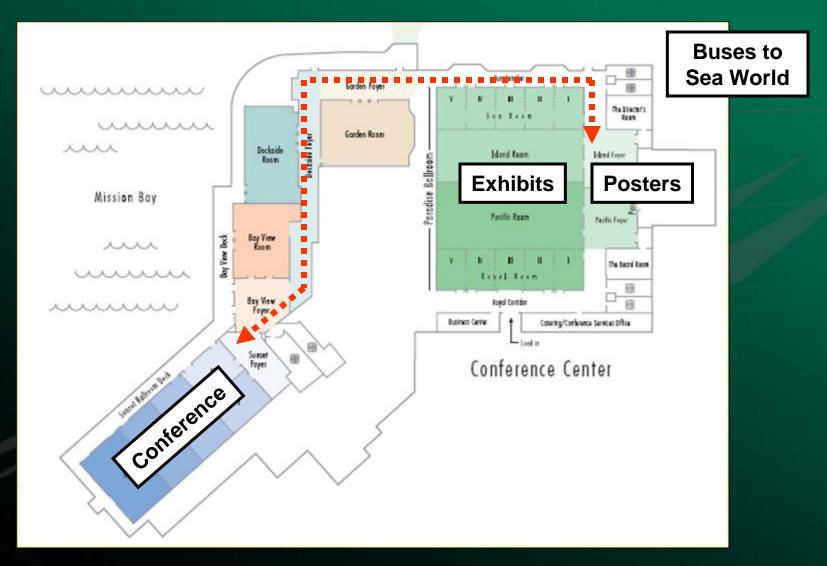
- 1. MJC
- 2. DFW Test, Inc.
- 3. Wentworth Laboratories, Inc.
- 4. Electroglas, Inc.
- 5. International Test Solutions (supporter)
- 6. FormFactor
- 7. DTS
- 8. AMST (Advanced Micro Silicon Technology)
- 9. Feinmetall GmbH (supporter)
- 10. New Wave Research Inc.
- 11. inTEST Silicon Valley Corp
- 12. Rucker and Kolls
- 13. ERS America / Maccs LLC
- 14. Integrated Technology Corporation
- 15. Technoprobe SPA
- 16. SEMI
- 17. Cascade Microtech, Inc. (supporter)
- 18. Accretech USA, Inc.
- 19. DJK Global / Topcon
- 20. **QualiTau, Inc**. (supporter)

- 21. Left Coast Instruments
- 22. Apex America, Inc.
- 23. Scanimetrics
- 24. NHK International Corp
- 25. Advanced Probing Systems, Inc.
- 26. Camtek USA
- 27. TAMAR Technology
- 28. International Contact Technologies Inc.
- 29. Applied Precision, LLC
- 30. RD Chemical Company, Inc.
- 31. Integrated Test Corporation
- 32. SV Probe, Inc.
- 33. Oxford Lasers
- 34. MicroProbe
- 35. Tokyo Electron Limited (TEL)
- 36. **JEM America Corp**. (supporter)
- 37. Test Advantage, Inc. (supporter)
- 38. Reid-Ashman Mfg.
- 39. Point Technologies
- 40. DSL Labs, Inc.

Don't Get Lost!



Don't Get Lost!



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