



2010

Welcome

March 7 - 10, 2010
Hilton Phoenix East / Mesa Hotel
Mesa, Arizona

WELCOME

Welcome
to
The World's Premier Workshop Dedicated To
Socketing And Related Fields

ELEVENTH 11th ANNUAL



In memory of Bill Mann

- 20 years of continuous service to IEEE, the Computer Society, and TTTC
 - 1984 to 1994 and 2002 to 2006: IEEE International Test Conference Committee
 - 1998: Golden Core Member for Volunteer Service
 - 1998: Outstanding Contributions to IEEE for SWTW
 - 2002: Best TTTC Tutorial
 - 2003 to 2006: North America Regional Activities Chair
 - 2003 to 2006: TTTC Executive Committee
 - 1993 to 2001: Associate Editor, *Design and Test of Computers*
 - 2001 to 2006: Advisory Board, *Design and Test of Computers*
 - 1991 to 2006: General Chair, IEEE SouthWest Test Workshop
 - 1998 to present: Invited speaker on wafer test technology
 - 2007: Chair Emeritus, IEEE SW Test Workshop
- And the list goes on ...



In memory of Bill Mann



ELEVENTH 11th ANNUAL
Bits
Burn-in & Test Socket Workshop

In memory of Bill Mann

Brian Trudie Bill Derek

Colleague....mentor....friend

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Bits
Burn-in & Test Socket Workshop

Workshop Overview

Welcome to the 11th Annual BiTS Workshop

The World's Premier Workshop Dedicated To Socketing And Related Fields

- **Comprehensive Program**
 - ✓ **Technical Program**
 - TechTalk
 - Tutorial
 - Keynote, Distinguished, Invited, & Market Update Speakers
 - Papers & Posters
 - ✓ **BiTS EXPO – 40 Exhibitors**
 - ✓ **Networking Opportunities**
 - Social Program

Announcing
vBiTS

Workshop Overview

Welcome to the 11th Annual BiTS Workshop

- Informal and Casual Throughout All Sessions and Activities
- Feedback & Suggestions are Encouraged
- BiTS is Pleased to be at the
Hilton Phoenix East / Mesa Hotel

ANNOUNCING

BiTS 2011
March 6 - 9, 2011
at the Hilton

Hotel Facilities

You are here
Sessions, Dinner

BiTS EXPO
(Atrium)

Breakfast, Breaks, Poster Sessions

Lunch (Pool Terrace; Fiesta Ballroom)

"BiTS-a-POOL-ozá"
(Pool & Pool Patio)




Workshop Overview


- **Attendee Registration Includes**
 - **Technical Program**
 - ✓ + TechTalk (*) ; Tutorial (*)
 - **Meals & Social Program**
 - **BiTS EXPO**
 - **Registration Package**
 - ✓ Badge
 - ✓ Hardcopy Proceedings
 - ✓ Workshop Guide & Exhibitor Directory
 - ✓ Souvenir Backpack
 - ✓ Sponsored Padfolio
 - ✓ TechTalk (*) ; Tutorial Materials (*)




(*) w. addl. registration



Workshop Overview



Learn...

- Learn** - from a technical program that includes the presentation of 25 papers, 5 posters, a TechTalk, a Tutorial and renowned speakers delivering the Invited, Distinguished, Market Update and Keynote addresses
- Explore** - the latest products and services from 40 companies at the BiTS EXPO
- Share** - ideas with colleagues from around the world at numerous networking events

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Workshop Overview

Learn...

ANNOUNCING

virtual BITS Workshop 2010

vBITS

An exciting new way to participate in the 2010 BITS Workshop
via the online extension of the live BITS WORKSHOP 2010

vBITS2010.SemiNeedle.com

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Workshop Overview

Learn...

vBITS2010.SemiNeedle.com



Workshop Overview



Workshop Guide

SPECIAL FEATURE by Gail Flower
“Sockets for Printed Electronics: Get Ready for a Changing World”

MARKET UPDATE by Brandon Prior
“Low Cost Packaging Trends”



Technical Program



- **BiTS TechTalk**
 - “PCB Design, Fabrication and Assembly”
✓ Tom Bresnan, Guy Ramsey — R&D Circuits
- **BiTS Tutorial**
 - “Socket RF Characterization Lab”
✓ Gert Hohenwarter — Gatewave Northern, Inc.
- **Market Update**
 - “Low Cost, Small Form Factor Packaging”
✓ Brandon Prior — Prismark Partners



Technical Program

Learn...

- **Featured Speakers:**
Focus on Test & Burn-in Directions

Invited
“Rising to the 3D TSV Test Challenge: Will You Be Ready?”
Françoise von Trapp — 3D InCites

Distinguished
“Test-in-Tray Perspective”
Dr. Thomas Di Stefano — Centipede Systems

Keynote
“Realizing the Benefits of Adaptive Test”
Ken Butler — Texas Instruments



Technical Program

Learn...

7 Technical Sessions

- **Socket Design, You Want What?**
- **Smarter PCB Design**
- **Contact Technology Art and Science**
- **Modeling the Real World**
- **Techniques, Components & Advances for Next Generation Test**
- **Test and Burn-in Operational Considerations**
- **Innovative Socket Ingredients**

Plus a Poster Session



BITS EXPO



- **41 Companies Exhibiting**
 - Explore the Latest Products & Services
 - Description & Contact Info in the Exhibitor Directory
 - Company List in the Proceedings
- **Atrium**
- **EXPO Schedule:**

MONDAY	TUESDAY
5:30PM – 9:00PM	3:00PM – 6:00PM



EXPO2010 Exhibitors



Atrium

A01 Piper Plastics	A15 Interconnect Devices, Inc.	A29 Aehr Test Systems
A02 High Connection Density	A16 Professional Plastics, Inc.	A34 Wells-CTI
A03 Sanyu Electric, Inc.	A17 RB Technology	A35 Wells-CTI
A04 Everett Charles Tech.	A18 Taconic	A36 DuPont
A05 J2M Test Solutions, Inc.	A19 NHK Spring Company	A37 Ironwood Electronics
A06 Micro Control Company	A20 Hon Hai Precision (Foxconn)	A38 Abrel Products
A07 E-TEC Interconnect, Ltd.	A21 Paricon Technologies	A44 Enplas Tesco Inc.
A08 Chip Scale Review	A22 Rika Denshi America, Inc.	A45 Multitest
A09 R&D Circuits	A23 Dynamic Test Solutions, Inc.	A46 Phoenix Test Arrays
A10 Johnstech Int'l Corp.	A24 Yamaichi Electronics USA	A47 Sensata
A11 CCT Plastics	A25 Aries Electronics	A48 Plastronics Socket Co.
A12 Test Tooling Solutions Gr.	A26 E. Jordan Brookes	A49 Brush Wellman, Inc.
A13 Oxford Performance Mat'ls	A27 Micronics Japan Co., Ltd	A50 Ensinger
A14 RJ1 Technical Sales	A28 Azimuth Electronics	A51 Qualmax

Premier Sponsor

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EXPO

...Explore...

EXPO2010
Floor Plan

to Kiva Ballroom & BiTS Registration

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BiTS™
Burn-in & Test Socket Workshop

Networking

...Share...

Meet and Chat With Someone You Don't Know

- **Many Opportunities to Network, Share & Discuss**
 - **Meals & Receptions**
 - **Morning and Afternoon Breaks**
 - **Poster Session During the Break on Monday PM**
 - **BiTS EXPO**
 - ✓ **Social Activities In Conjunction With the Exhibits**
 - **Tuesday Evening Social Event: "BiTS-a-POOL-oz"**
 - ✓ **Pool Party With Reception, Hors d'oeuvres, Games**

 **Social Event**

"BITS-a-POOL-oza"

Pool Party!

Tuesday, March 9 - 6:00PM
Pool Patio & Pool

**Reception, Hors d'oeuvres,
Games**

New England Clam Bake

kick back and enjoy some 'pool-time'



 **Recognition**

- **Evaluation / Comments Forms**
 - Forms are in the Proceedings
 - ✓ After Each Session
 - ✓ Overall Workshop
- **Award Plaques**
 - Best Poster
 - Best Data Presented
 - Most Inspirational Paper
 - Best Presentation, Tutorial in Nature
 - Attendee Choice
 - Best Presentation / Paper

**BiTS Award Archive
is in the Proceedings**

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Recognition

AND.....a Special Award.....

Now “Semi-Retired”

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Special Award

for the

Least Concealed Sales Pitch

The
(Almost) Brilliant Disguise
Award




BiTS Website

Your Complete Source For Information About BiTS

http://www.bitsworkshop.org



Social Networking

Join the Burn-in & Test Socket Workshop (BiTS) group on **in**

Follow us on **twitter**
@BiTSWorkshop


BiTS Website

Your Complete Source For Information About BiTS

http://www.bitsworkshop.org

** Current Workshop **

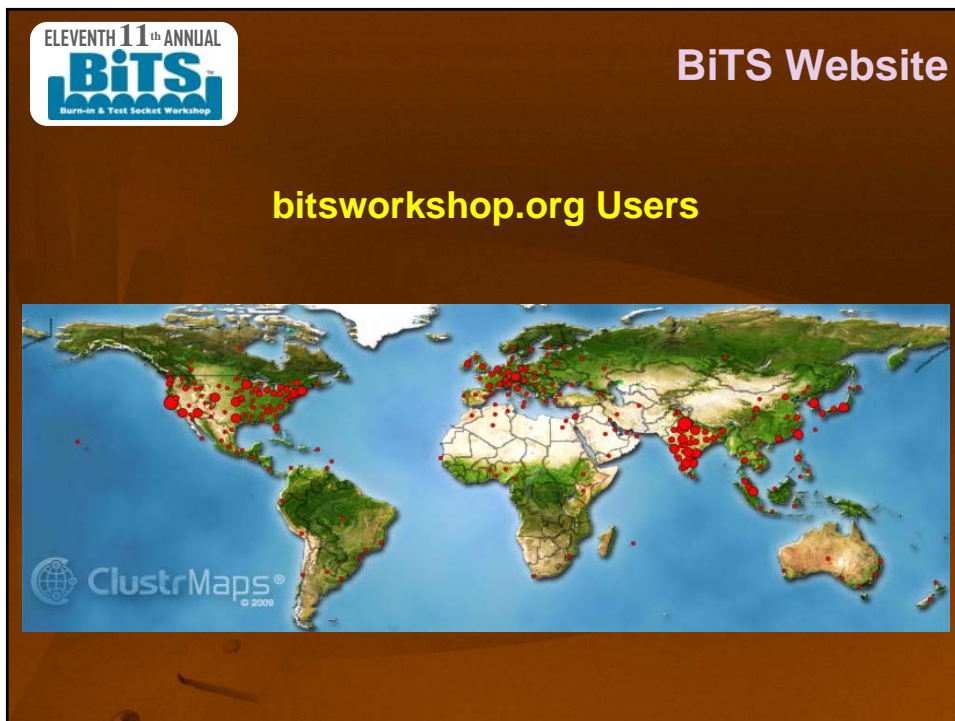
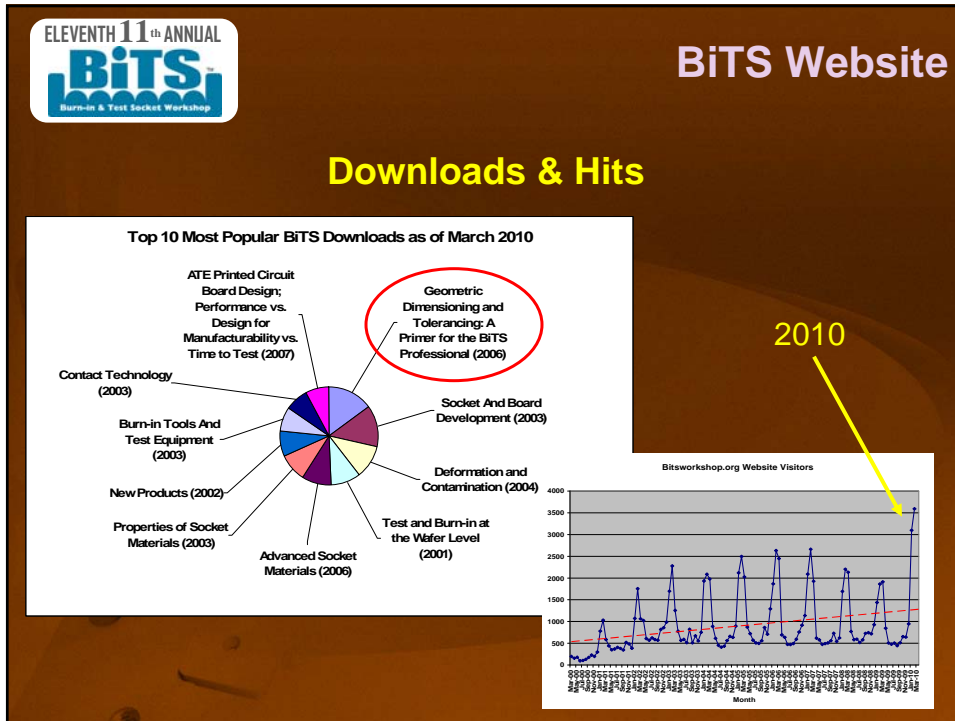
- Call For Papers
- EXPO
- Advance/Final Program
- Registration Information & Forms; Register On-line
- Author Information
- Hotel Information/Travel

** Features **

- Committee Members
- Contact BiTS - Add to Mailing List & Inquiries
- Links to Other Websites
- 'Press' About BiTS
- Search BiTS Feature

** Prior Workshops **

BiTS Archive: Papers, Authors, Attendees



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BiTS Website

Your Complete Source For Information About BiTS
<http://www.bitsworkshop.org>

Coming Soon

BiTS 2010 Archive (April/May 2010)

BiTS 2011 Call For Presentations (~August 2010)

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WITH THANKS TO OUR SPONSORS

Premier

multitest
A DOVER COMPANY
>> economy through technology

Welcome Reception

Souvenir

CASCADE
MICROTECH

RD
CIRCUITS

Publication

Lanyard

ChipScale
REVIEW

YAMAICHI
ELECTRONICS

Resources

Other Burn-in & Test Resources

- Chip Scale Review
- Final Test Report
 - ✓ The latest news from around the test industry
- Design & Test of Computers
- MicroConnections
- **SWTW – Semiconductor Wafer Test Workshop**

Committee

PROGRAM

Steve Hamren, Chair
Micron

<p>Rafiq Hussain Advanced Micro Devices</p> <p>Morten Jensen Intel</p> <p>Marc Knox IBM Systems & Tech. Group</p> <p>Joachim Moerbt Advantest-Europe</p>	<p>Mike Noel Freescale</p> <p>John Moore Texas Instruments</p> <p>Ila Pal Ironwood Electronics</p> <p>Tim Swettlen (Tutorials Chair) Intel</p>
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LOCAL ARRANGEMENTS

Valts Treibergs, Chair
Multitest

Kena Pegram
Sanyu Electric

Owen Prillaman
TechConnect Sales & Distribution

PUBLICITY & PUBLICATIONS

Mark Murdza, Chair
Cascade Microtech

REGISTRATION

Paul Boyce, Chair
Advantage Specialist