BiTS™
Burn-in & Test Socket Workshop

March 6 - 9, 2011
Hilton Phoenix East / Mesa Hotel
Mesa, Arizona

WELCOME

Welcome

to

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

TWELFTH 12th ANNUAL

BiTS
Burn-in & Test Socket Workshop

Workshop Overview

(Please Silence Cell Phones & Beepers)

Workshop Overview

Welcome to the 12th Annual BiTS Workshop

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

➢ **Comprehensive Program**
  ✓ **Technical Program**
    – **TechTalk**
    – **Tutorial**
    – **Keynote, Invited, Market Update, Socket Marketplace Speakers**
    – **Papers & Posters**
  ✓ **BiTS EXPO – 48 Exhibitors**
  ✓ **Networking Opportunities**
    – **Social Program**

TWELFTH 12th ANNUAL

BiTS Burn-in & Test Socket Workshop

Workshop Overview

Welcome to the 12th Annual BiTS Workshop

eBiTS 2011

- **Posters & Info on Flat Screen Monitors**
- **Proceedings on a Thumbdrive**
- **Tutorial 'Manual' on a Thumbdrive**
- **TechTalk 'Manual' on Wireless Download**
- **Evaluations on the Web**
- **Featured Speakers & EXPO Video Interviews on the Web**

A Long Way From Overhead
Projectors & Transparencies
at BiTS 2000

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BiTS Burn-in & Test Socket Workshop

Workshop Overview

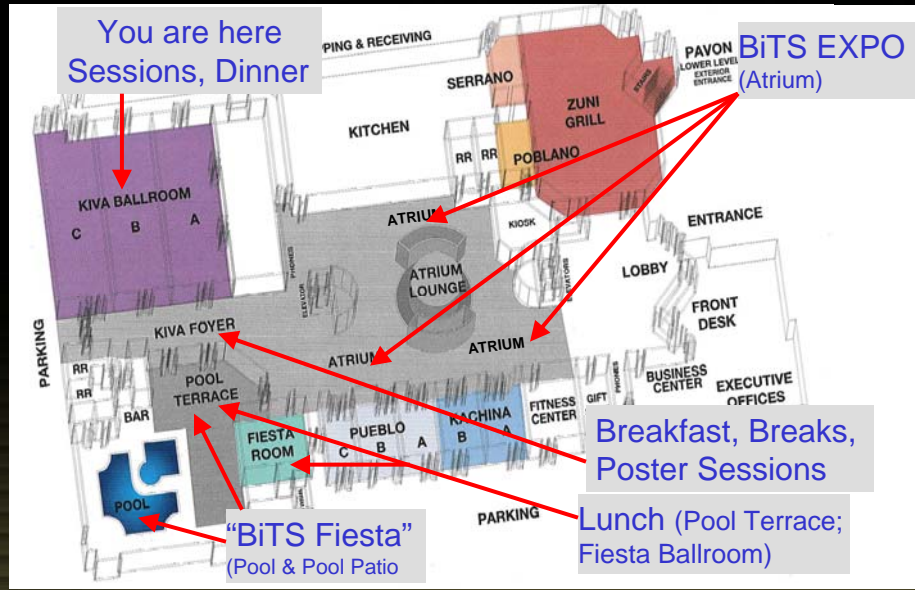### Welcome to the 12th Annual BiTS Workshop

- **Informal and Casual Throughout All Sessions and Activities**

- **Feedback & Suggestions are Encouraged**

- **BiTS is pleased to again be at the Hilton Phoenix East / Mesa Hotel**

A N N O U N C I N G

BiTS 2012
March 4 - 7, 2012
at the Hilton

Hilton
Phoenix East/Mesa
Your Second Home 25 Years

TWELFTH 12th ANNUAL BiTS — Hotel Facilities

You are here
Sessions, Dinner

BiTS EXPO
(Atrium)

Breakfast, Breaks,
Poster Sessions

Lunch (Pool Terrace;
Fiesta Ballroom)

"BiTS Fiesta"
(Pool & Pool Patio

(Map labels: PING & RECEIVING, SERRANO, KITCHEN, ZUNI GRILL, PAVON LOWER LEVEL EXTERIOR ENTRANCE, POBLANO, RR RR, KIVA BALLROOM C B A, ATRIUM, KIOSK, ATRIUM LOUNGE, ENTRANCE, LOBBY, FRONT DESK, KIVA FOYER, PARKING, RR RR, BAR, POOL TERRACE, FIESTA ROOM, PUEBLO C B A, KACHINA B A, FITNESS CENTER, GIFT, PHONES, BUSINESS CENTER, EXECUTIVE OFFICES, ATRIUM, ATRIUM, PARKING, POOL)
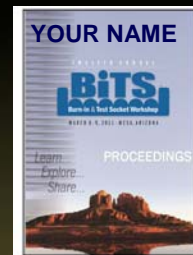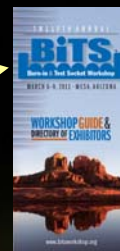
Workshop Overview

- **Professional Attendee Registration Includes**
  - **Technical Program**
    - ✓ **+ TechTalk (*); Tutorial (*)**
  - **Meals & Social Program**
  - **BiTS EXPO**
  - **Registration Package**
    - ✓ **Badge w. Sponsored Lanyard**
    - ✓ **Workshop Guide & Exhibitor Directory**
    - ✓ **Softcopy Proceedings (Hardcopy Optional)**
    - ✓ **Souvenir Backpack, Tote**
    - ✓ **Sponsored Padfolio**
    - ✓ **TechTalk (*); Tutorial Materials (*)**
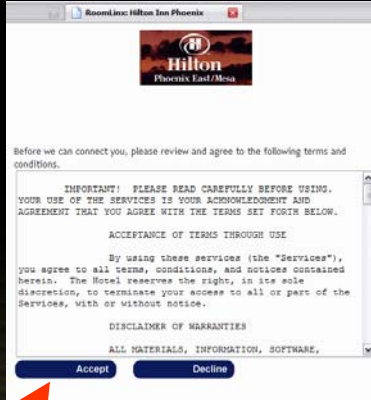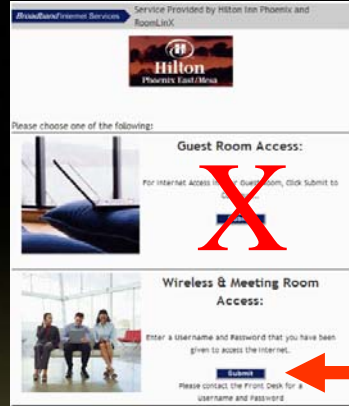   - ✓ **Evaluation Forms**

YOUR NAME
PROCEEDINGS
Learn
Explore
Share

(*) w. addl. registration)

TWELFTH **12**th ANNUAL
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Workshop Overview

Wireless Access

1

RoomLinx: Hilton Inn Phoenix

Hilton
Phoenix East/Mesa

Before we can connect you, please review and agree to the following terms and conditions.

IMPORTANT! PLEASE READ CAREFULLY BEFORE USING. YOUR USE OF THE SERVICES IS YOUR ACKNOWLEDGMENT AND AGREEMENT THAT YOU AGREE WITH THE TERMS SET FORTH BELOW.

ACCEPTANCE OF TERMS THROUGH USE

By using these services (the "Services"), you agree to all terms, conditions, and notices contained herein. The Hotel reserves the right, in its sole discretion, to terminate your access to all or part of the Services, with or without notice.

DISCLAIMER OF WARRANTIES

ALL MATERIALS, INFORMATION, SOFTWARE,

Accept   Decline

2

BroadBand Internet Services   Service Provided by Hilton Inn Phoenix and RoomLinX

Hilton
Phoenix East/Mesa

Please choose one of the following:

Guest Room Access:
For Internet Access in your Guest Room, Click Submit to

X

Wireless & Meeting Room Access:
Enter a Username and Password that you have been given to access the Internet.

Submit
Please contact the Front Desk for a Username and Password

USERNAME: **BITS workshop**   **PASSWORD:** **307175**
Technical Support: 1-866-765-9009

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Workshop Overview

Learn....

Learn - from a technical program that includes the presentation of 26 papers, 6 posters, a TechTalk, a Tutorial. A Socket Marketplace Report and renowned speakers delivering the Invited, Market Update and Keynote addresses

Explore - the latest products and services from 47 companies at the BiTS EXPO

Share - ideas with colleagues from around the world at numerous networking events

Workshop Overview

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Learn...

Workshop Guide

SPECIAL FEATURE by Ron Molnar
"Burn-In and Test Socket Manufacturing Technology, Markets and the Challenges in 2011"

Technical Program

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Learn...

- **BiTS TechTalk**
  - ➤ **"Sockets: A Comprehensive, Comprehensible Guide to Contact Technology"**
    - ✓ Jon Diller—Interconnect Devices, Inc.
- **BiTS Tutorial**
  - ➤ **"Signal and Power Integrity in the Test Interface"**
    - ✓ Jason Mroczkowski, Ryan Satrom—Multitest
- **Market Update**
  - ➤ **"IC Package Miniaturization and System in Package (SiP) Trends"**
    - ✓ Brandon Prior—Prismark Partners
- **Market Report**
  - ➤ **"Socket Marketplace Report"**
    - ✓ Fred Taber—BiTS Workshop

Technical Program

Learn...

- **Featured Speakers:**

Invited

"3D Test: You Tell Me and We'll Both Know"
Al Crouch—ASSET InterTech, Inc.

Keynote

"Thermal Management Applied to Data Centers with Focus on Energy Efficiency"
Roger Schmidt—IBM Corporation

Technical Program

Learn...

7 Technical Sessions

- **Cranking up the Frequency**
- **Sockets: Better by Design**
- **Get on Board!**

- **Of Material Importance**
- **It's a Free for All!**
- **Testing the Testers**
- **Operations: The Big Picture**

Plus a Poster Session

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BiTS EXPO

...Explore...

- **47 Companies Exhibiting**
  - ➢ **Explore their 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

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EXPO2010 Exhibitors

...Explore...

Atrium

A01	Aehr Test Systems	A17	RS Solutions	A36	E. I. duPont de Nemours
A02	High Connection Density	A18	Medallion Technology	A37	Ironwood Electronics
A03	Able Electronics	A19	Marcel Electronics Int'l	A38	Abrel Products
A04	Everett Charles Tech.	A20, A21	Leeno Industrial, Inc.	A39	Johnstech Int'l Corp.
A05	J2M Test Solutions	A22	Paricon Technologies Corp.	A40	Piper Plastics, Inc.
A06	Micro Control Company	A23	Rika Denshi America, Inc.	A41	Interconnect Devices, Inc.
A07	E-TEC Interconnect, Ltd.	A24	CCT Plastics	A42	Transcend Technologies
A08	Chip Scale Review	A25	Yamaichi Electronics	A43	OPEN
A09	R&D Circuits	A26	Incal Technology, Inc.	A44	Enplas Tesco, Inc.
A10	Robson Technologies	A27	Aries Electronics, Inc.	A45	Multitest
A11	IWIN Co., Ltd.	A28	E. Jordan Brookes	A46	Phoenix Test Arrays
A12	Test Tooling Solutions	A29	Micronics Japan Co., Ltd.	A47	Sensata Technologies
A13	Vermont Mold & Tool	A30	Azimuth Electronics, Inc.	A48	Plastronics Socket Co.
A14	3M Electronic Solutions	A31	Hon Hai Precision (Foxconn)	A49	Brush Wellman, Inc.
A15	MJS Designs, Inc.	A32	Evans Analytical Group	A50	Ensinger, Inc.
A16	RB Technology, Inc.	A34, A35	Wells-CTI	A51	Qualmax, Inc.

Principal Sponsors

EXPO

...**Explore**...
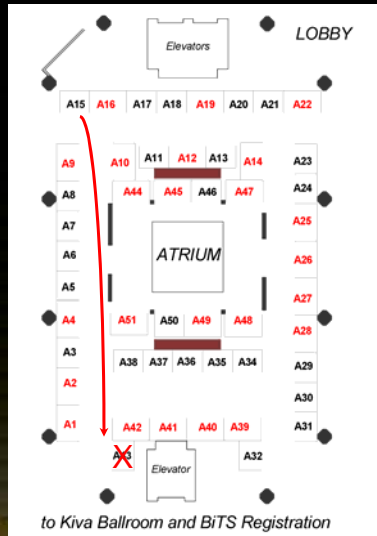
EXPO2011

Floor Plan

Networking

...**Share**...

Meet Your Colleagues From Around the World
- **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 Fiesta"**
    - ✓**Southwestern Celebration**
      - **-- Reception, Tapas, Games --**

BiTS Fiesta

Southwestern Celebration!

Tuesday, March 8 - 6:00PM
Pool Patio & Pool

Reception, Tapas, Games

Sombreros are optional!

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Technical Program

Learn...

Evaluation / Comments Forms

Hardcopy   **&/or**   **Online**

in registration kit   **http://www.bitsworkshop.org/2011**

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Recognition

- **Award Plaques**
  - ➢ **Best Poster**
  - ➢ **Best Data Presented**
  - ➢ **Most Inspirational Paper**
  - ➢ **Best Presentation, Tutorial in Nature**
  - ➢ **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

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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

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BiTS Website

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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**
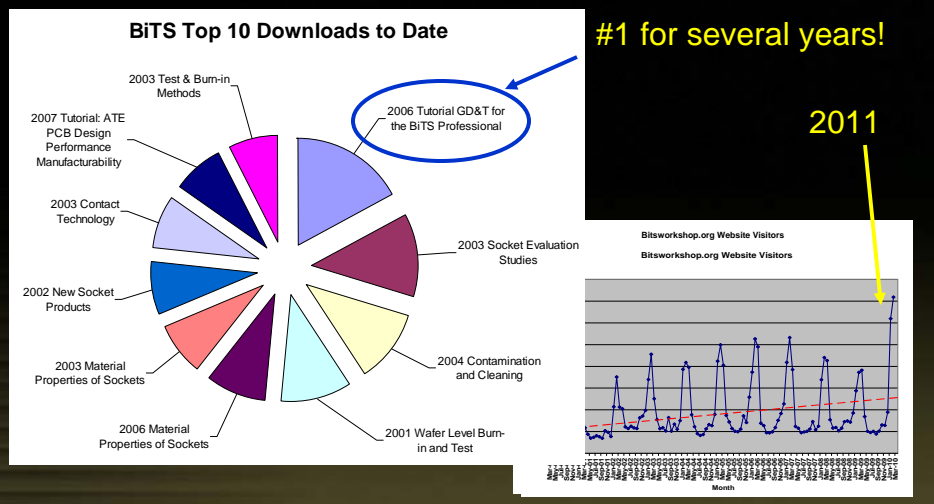- **'Press' About BiTS**
- **Search BiTS Feature**

** Prior Workshops **
BiTS Archive: Papers, Authors, Attendees

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BiTS Website

Downloads & Hits

BiTS Top 10 Downloads to Date

- 2003 Test & Burn-in Methods
- 2007 Tutorial: ATE PCB Design Performance Manufacturability
- 2003 Contact Technology
- 2002 New Socket Products
- 2003 Material Properties of Sockets
- 2006 Material Properties of Sockets
- 2006 Tutorial GD&T for the BiTS Professional
- 2003 Socket Evaluation Studies
- 2004 Contamination and Cleaning
- 2001 Wafer Level Burn-in and Test

#1 for several years!

2011

Bitsworkshop.org Website Visitors

BiTS Website

bitsworkshop.org Users

Anyone here from India?

BiTS Website

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

Coming Soon

BiTS 2011 Archive (April/May 2011)

BiTS 2012 Call For Presentations (~August 2011)

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Sponsors

Premier
multitest
A DOVER COMPANY
>> economy through technology

Distinguished

AVI-TECH ELECTRONICS

CASCADE MICROTECH

tts
innovate . collaborate . deliver

Keynote
WELLS-CTI

Publication
Chip Scale REVIEW

Lanyards
PARICON

Notebooks
PHOENIX TEST ARRAYS
High Performance Contacts

Key Card
R/D CIRCUITS

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Resources

Other Test & Burn-in Resources

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

Chip Scale REVIEW

THE FINAL TEST REPORT

IEEE Design&Test of Computers
SPECIAL ISSUE THEME: FUTURE LANDSCAPE OF EMBEDDED MEMORIES
IEEE

Test, Assembly & Packaging TIMES
Soaring Gold Prices
Give Copper a Boost

SWTW
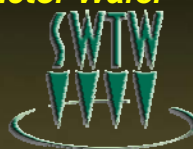
Committee

PROGRAM: *Steve Hamren, Chair—Micron*

Rafiq Hussain—AMD Morten Jensen—Intel
Marc Knox—IBM Joachim Moerbt—Advantest
Mike Noel—Freescale John Moore—Texas Instruments
Ila Pal—Ironwood Elect. Tim Swettlen—Intel (Tutorials Chair)

LOCAL ARRANGEMENTS: *Valts Treibergs, Chair—Multitest*

Kena Pegram—Phoenix Test Arrays
Owen Prillaman—TechConnect Sales & Distribution

PUBLICITY & PUBLICATIONS: *Mark Murdza, Chair—Cascade Microtech*

MARKETING: *John Hartstein, Chair—Wells-CTI*

REGISTRATION: *Paul Boyce, Chair—Advantage Specialist*