

Automotive Electronics Council
Component Technical Committee

Twelfth Annual Automotive Electronics Reliability Workshop

Call For Presentations and Registration Notice

May 22 – 24, 2007

Sheraton Music City Hotel

777 McGavock Pike
Nashville, TN 37214
(615) 885-2200

Organized by:

AEC Component Technical Committee

DELPHI

SIEMENS VDO
Automotive



ALTERA

AMI
AMI SEMICONDUCTOR



Autoliv

CIRRUS LOGIC

Continental

freescale
semiconductor

GENTEX
CORPORATION

Infineon
technologies

International
IOR Rectifier

JOHNSON
CONTROLS

KEMET

Lattice
Semiconductor Corporation

DALLAS
SEMICONDUCTOR

MAXIM

MICROCHIP

miRata
Innovator in Electronics

NEC

NXP
founded by Philips

ON
ON Semiconductor

RENESAS

SPANSION

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TEXAS
INSTRUMENTS

tyco / Electronics

VISHAY

XILINX

AEC Sustaining Members

Q100 (Integrated Circuits):

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Automotive Electronics Council

Component Technical Committee

2007 - Twelfth Annual Automotive Electronics Reliability Workshop

May 22, 23, & 24, 2007
Sheraton Music City Hotel
Nashville, TN

Call For Presentations

This workshop provides a forum and structured environment to discuss quality and reliability problems and philosophies related to all aspects of passive component, discrete semiconductor, and integrated circuit design, test, analysis, fabrication, assembly, and field performance. The environment is a highly interactive technical presentation and panel discussion format promoting open and frank communications within the international automotive component supplier base.

This call for presentations solicits your submission of abstracts of less than 200 words dealing with current automotive electronic component issues. The abstracts and topics will be reviewed and selected for presentation based upon technical merit, innovation, automotive focus, and relevancy. Company commercials and/or endorsements are not allowed. Company logos may be used on presentation slide borders only. Each presentation will be allotted 20-25 minutes, followed by a question and answer session. Presentations and late breaking contributions relevant to today's activities and tomorrow's ideas are requested.

Preferred "HOT" Topics:

PAT/SBL implementation	"Zero Defects" implementation	Bare die qualification/screen
Green/Pb-free component capability	OEM/End-Customer requirements	ESD Sensitivity
Technical issues with 90nm and below	New/Suspect failure mechanisms	New Q100 changes
Tin Whisker Growth testing	Smart Power Short Circuit Op/Rel	

Examples of topics from past workshops:

Q100/Q101/Q200 Specification Impact	New Failure Mechanisms	Emerging Challenges
Maverick Lot/Wafer Programs	Continuous Improvement	Preventive Failure Analysis
Component Family Qualification	Known Good Die	FMEA
Nominal Test Limits	Tri-Temp Testing	New Test Techniques
Field Performance Data	Quality Trends	MCM Technology
Accelerated Stresses	Reliability Monitoring	Flip Chip Technology
ESD/EOS/EMI/Latch-up	Burn-In Elimination	Advanced Packaging
Wafer Level Reliability	Software Issues	QS/ISO-9000/9001
Performance Characterization	Mission Profiles	OEM System Reliability

Submit an electronic version of your abstract (in both Word & PDF format) and finished presentation (in both PowerPoint & PDF format) to:

Brian Jendro
Siemens VDO

Office Phone: (256) 464-2980
Email: brian.jendro@siemens.com

Key Presentation Dates

Abstract Submittal Deadline	March 1, 2007
Presentation Selection & Final Agenda	April 1, 2007
Final Copy of Presentation Due	May 1, 2007

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AEC Objective: The purpose of this workshop is to continuously improve communications between automotive electronic component users and their supplier base. The goal of the Automotive Electronics Council is the development of uniform automotive industry specifications and requirements to improve automotive product quality and reliability while reducing cost and time to market.

Who Should Attend: Engineers and managers who are involved in the qualification, testing, reliability, and failure analysis of automotive passive components, discrete semiconductor devices, and integrated circuit devices. It would also be helpful to those who are responsible for establishing quality and reliability policies for automotive components.

Registration Fee: There is **NO REGISTRATION FEE**, but workshop participants must register with the hotel before **May 1, 2007** to ensure that the block room rate of \$122 per night is available. Hotel room reservations requests received after 5:00 pm (EST) on May 1, 2007 will be accepted at the prevailing rate.

The AEC negotiated a minimum hotel room commitment to minimize room rates and meeting expenses. In order to remain a free Workshop event for attendees, the AEC must meet the sleeping room commitment. **Please use the Sheraton Music City Hotel when making your room reservation, and clearly state that you are attending the 2007 AEC Reliability Workshop.**

This is your workshop. Please come with an open mind and be prepared to share and learn about new ideas and accomplishments. Your ideas on how to improve future workshops are always welcomed.

Workshop Registration

Registering for the workshop can be done by accessing the AEC website at <http://www.aecouncil.com> and clicking on "**Updated: Annual AEC Reliability Workshop & Registration Information**", then click on "Registration Form" to fill out and submit the form. Please complete all fields on the registration form.

Hotel Reservation

Reserving a room at the hotel can be accomplished by accessing the hotel reservation website for the 2007 AEC Reliability Workshop or the following link and entering the requested information:

<http://www.starwoodmeeting.com/Book/SIEMENSVD0>

If you choose to make your reservations by phone (615) 885-2200 or (800) 325-3535, request a room from the block reserved under the meeting "2007 AEC Reliability Workshop". The room rate for the block is \$122 per night. Room block rates will be accepted until the May 1, 2007 cut-off date. Reservation requests received after 5:00 pm (EST) on May 1, 2007 will be accepted at the prevailing rate.

Tentative Agenda

(subject to change based on abstract receipts)

Tuesday, May 22

7:30 am - 8:00 am Refreshments/Registration
8:00 am - 10:00 am **Session 1: Passive Components**
10:00 am - 10:30 am Break
10:30 am - 12:00 noon **Session 2: Passive Components**
12:00 noon - 1:30 pm Lunch (on own)
1:30 pm - 3:00 pm **Session 3: Passive Components / Discrete Semiconductors**

3:00 pm - 3:30 pm Break
3:30 pm - 5:00 pm **Session 4: Passive Components / Discrete Semiconductors**

Breakout Session
9:00 am - 5:00 pm **Tutorial: To Be Announced**

Evening Discussion
7:00 pm - 9:00 pm **AEC Panel Discussion: Q101 & Q200 Issues**

Wednesday, May 23

7:30 am - 8:00 am Refreshments/Registration
8:00 am - 10:00 am **Session 5: Discrete Semiconductors / Integrated Circuits**

10:00 am - 10:30 am Break
10:30 am - 12:00 noon **Session 6: Discrete Semiconductors / Integrated Circuits**

12:00 noon - 1:30 pm Lunch (on own)
1:30 pm - 3:00 pm **Session 7: Integrated Circuits**
3:00 pm - 3:30 pm Break
3:30 pm - 5:00 pm **Session 8: Integrated Circuits**

Evening Discussion
7:00 pm - 9:00 pm **AEC Panel Discussion: Q100 Issues**

Thursday, May 24

7:30 am - 8:00 am Refreshments/Registration
8:00 am - 10:00 am **Session 9: Integrated Circuits**
10:00 am - 10:30 am Break
10:30 am - 12:00 noon **Session 10: Integrated Circuits**
12:00 noon - 1:30 pm Lunch (on own)
1:30 pm - 3:00 pm **Session 11: Integrated Circuits**
3:00 pm - 3:30 pm Break
3:30 pm - 4:30 pm **Session 12: Integrated Circuits**
4:30 pm - 5:00 pm Closing Remarks

Key Workshop Dates

Preliminary Call for Presentations	February 1, 2007
Abstract Submittal Deadline	March 1, 2007
Presentation Selection & Final Agenda	April 1, 2007
Hotel Reservation Deadline *	May 1, 2007
Workshop Registration Closes **	May 1, 2007
Final Copy of Presentation Due	May 1, 2007
Workshop Begins	May 22, 2007

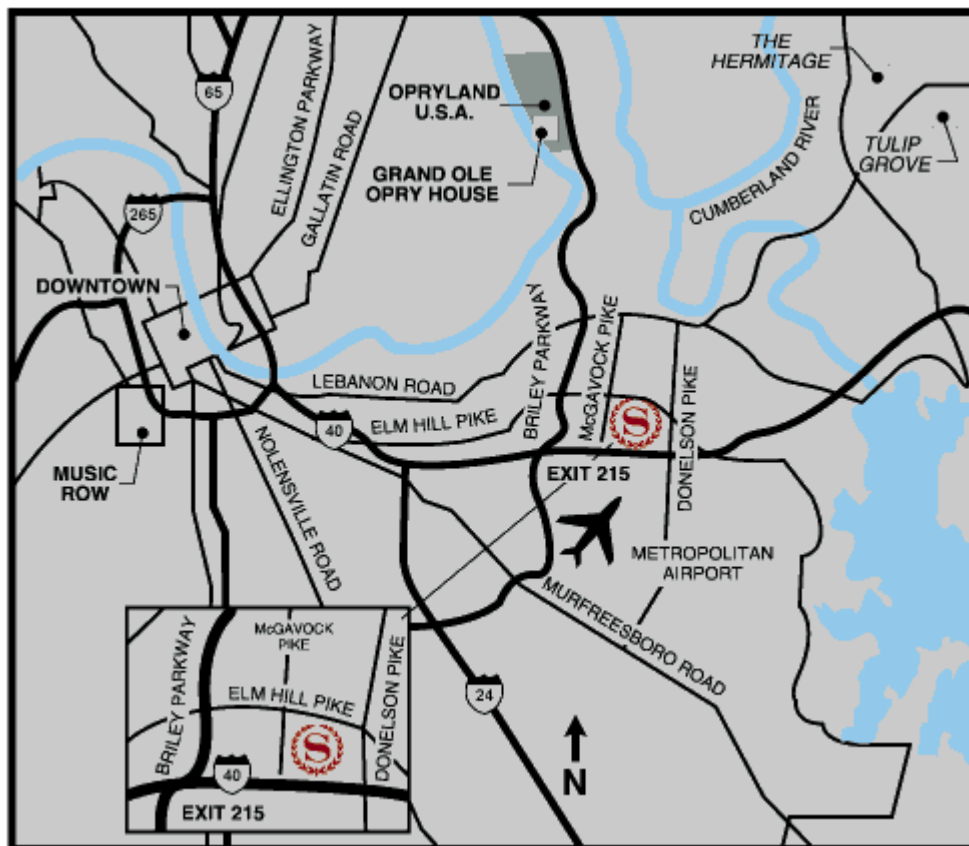
** *Walk-ins welcome pending space availability*

Recording devices (video and/or audio) are prohibited at the workshop

Lodging: A block of rooms has been set aside for workshop participants at the Sheraton Music City Hotel in Nashville, Tennessee. Participants should make reservations directly with the hotel by clicking on the hotel reservation link shown on the previous page, or by phone at (615) 885-2200 or (800) 325-3535, no later than May 1, 2007. When making reservations, mention the 2007 AEC Reliability Workshop to get the group rate of \$122 per night. Failure to identify yourself as an AEC Workshop attendee will result in a higher room rate. **Room block rates will be accepted until the May 1, 2007 cut-off date. Reservation requests received after 5:00 pm (EST) on May 1, 2007 will be accepted at the prevailing rate.**

Ground Transportation: Car rental and taxi service are available at the Nashville International Airport. The Sheraton Music City Hotel does have shuttle service available to and from the airport, every day beginning at 5:15 am and ending at midnight. Shuttle will arrive at the airport on the hour and half hour, and departs 15 minutes later to return to the hotel. Check with the hotel for the most current transportation schedule.

Directions: The Sheraton Music City Hotel is located within a couple miles from the Nashville International Airport (see map below). **FROM AIRPORT:** Take the Nashville Exit I-40 West. Travel to Donelson Pike / TN-255 N exit. Take Donelson Pike 0.8 miles to Elm Hill Pike. Make a left on Elm Hill Pike. Follow Elm Hill Pike 1.0 miles to McGavock Pike. Make a left on McGavock Pike. The Sheraton Music City entrance will be on the left after 0.6 miles. **Detailed directions are available via the Sheraton Music City Hotel webpage (<http://www.sheratonmusiccity.com>).**



Sheraton Music City Hotel

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Nashville, TN 37214
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