

ASTR 2009 Presentation Schedule

	Wednesday 10/7/2009		Thursday 10/8/2009		Friday 10/9/2009
7:00 AM	7:00 AM Breakfast	7:00 AM	7:00 AM Breakfast	7:00 AM	7:00 AM Breakfast
8:00 AM	8:00 AM Welcome Remarks Committee	8:00 AM	8:00 AM Announcements Committee	8:00 AM	8:00 AM Announcements Committee
8:15 AM	8:15 AM Keynote 1 Alfredo Z. Matos PSEG Company Renewable Energy: State of the Art, Opportunities, and Challenges and the Role of Accelerated Stress Testing and Reliability	8:10 AM	8:10 AM Keynote 2 Kenneth Kelly NREL Demand for Highly Reliable Renewable Energy Systems	8:10 AM	8:10 AM Keynote 4 Harvey Bair Bell Labs (Retired) TA Tools to Enhance Performance and Reliability of Network Formers in Telecom Products
8:45 AM	8:45 AM Green Panel Discussion Igor Palley, Bill Russell, Bill Makofske Fairleigh Dickinson University Renewable Energy: State of the Art, Opportunities, and Challenges and the Role of Accelerated Stress Testing and Reliability*	9:10 AM	9:10 AM Physics of Failure Sarah Kurtz NREL Reliability Challenges for Solar Energy	9:10 AM	9:10 AM Reliability Mike Silverman Ops A La Carte How to design a better reliability program
10:15 AM	10:15 AM BREAK 15 Minutes	9:55 AM	9:55 AM BREAK 15 Minutes	10:00 AM	10:00 AM BREAK 15 Minutes
10:30 AM	10:30 AM Tutorial Mike Silverman Ops A La Carte Green Reliability	10:10 AM	10:10 AM Physics of Failure C. Choi, M. Al-Bassiyouni, A. Dasgupta CALCE, Univ of Maryland PoF Issues in Multi-DoF Vibration Testing: ED Shakers and RS Shakers	10:15 AM	10:15 AM Reliability Gary Hazard Tellabs Energy efficient product development drives both design and application behavior changes
10:40 AM		10:40 AM		10:30 AM	10:30 AM Reliability David Verbitsky Optimization of Wafer Reliability Strategy and Practice for Commercial Devices Based on HALT
11:10 AM		11:10 AM	11:10 AM Physics of Failure A. Vlahinos, M.P. O'Keefe NREL Designing Six-Sigma Quality into HEV Power Electronics	11:20 AM	11:20 AM Reliability Neill Doertenbach Qualmark Reduce the Cost of Supplier Subassembly Failures in Renewable Energy Applications with HALT
11:45 AM	11:45 AM Lunch	11:45 AM	11:45 AM Lunch Speaker Keynote 3 Anthony Chan Huawei Technologies From Electronic Packaging to Internet and the Engineers	12:10 PM	12:10 PM Lunch
12:45 PM	12:45 PM Tutorial 2 Olli Salmela Nokia Siemens Effect of thermal cycling on solder material	12:45 PM		1:10 PM	1:10 PM Reliability Mandy Mayfield Advanced Energy, Inc Reliability Optimization Strategy
1:00 PM		1:15 PM	1:15 PM Physics of Failure S. Douglas, M. Al-Bassiyouni, A. Dasgupta CALCE, Univ of Maryland PoF Issues in Drop Testing upto 20,000 Gs	2:00 PM	2:00 PM Case Studies Amar Thiraviam ODI Accelerated Degradation Analysis of Dielectric Materials Under Subsea
1:45 PM	1:45 PM Ryszard Pryputniewicz, WPI Reliability, packaging, and testing of MEMS	1:45 PM	1:45 PM Physics of Failure S. Martell, J. Bailey Sonoscan Analysis of latent defects and material degradation in microelectronic packages using Acoustic Micro Imaging (AMI)	2:50 PM	2:50 PM Reliability T. Paul Parker Solar Bridge Technologies Design and Test Strategies for High Reliability Solar Microinverters
2:00 PM		2:15 PM	2:15 PM Reliability Nathan Blattau and Craig Hillman DIR Solutions Thermo-mechanical Fatigue Testing of Printed Circuit Card Assemblies Using Power Cycling	3:40 PM	3:40 PM Reliability Lev Klyats Eccol, Inc Specifics of accelerated reliability/durability testing
3:00 PM		3:00 PM	3:00 PM Reliability Harry McLean Advanced Energy, Inc Estimating Field Failure Rate from the Results of HALT	4:30 PM	4:30 PM Wrap Up & Closing Comments
3:45 PM	3:45 PM Break 15 mins	3:30 PM	3:30 PM Break 15 mins		
4:00 PM	4:00 PM Tutorial 3 Ephraim Suhir UC Santa Cruz Role of predictive modeling in understanding the physics of accelerated testing	3:45 PM	3:45 PM Case Studies H.S. Liu, Quanta Laboratories Huawei Case Study		
4:15 PM		4:15 PM	4:15 PM Case Studies M. Silverman, B. Werner, D. Xie, D. Geiger Ops A la Carte/Trimble Navigation/Flextronics IC Package Size DOE Using Various Environmental Accelerants		
4:45 PM		4:45 PM	4:45 PM Equipment Panel Discussion		
5:15 PM	5:30 PM End	5:15 PM			
6:00 PM		6:00 PM		6:00 PM	
7:00 PM	6:30 PM Exhibitor Reception	7:00 PM	7:00 PM ASTR Dinner	7:00 PM	