

Quality Times

Section 1309

May 2006



Northern Colorado
Section

May Monthly Meeting

Section 1309 Monthly Membership Meeting

Date: 5/17/06

Time: 5:30—8:00 pm

Please RSVP to: info@asq1309.com

Topic: Integrated Circuit Reliability.

New Location: Boulder Scientific at 4161 Specialty Place. From I-25 and Hwy 119 (Longmont exit), go 1 block east to the Frontage Rd. Take the Frontage Rd south for slightly over 1 mile, then turn east onto Specialty Place. Take Specialty Place until it dead-ends into the Boulder Scientific parking lot.

Dinner (pizza or subs) and soda to be provided

Speaker: Dennis Eaton

Dennis Eaton received his B.S. degree in physics from Harvey Mudd College, Claremont, CA, and his M.S. and Ph.D. degrees in physics from the University of Illinois, Urbana-Champaign, IL. He then joined Bell Labs where he worked on bipolar integrated circuits and metallization. In 1976, Dr. Eaton joined the Hewlett-Packard Company, working in MOS technology and processing. He later held management positions in silicon process development, manufacturing, and yield improvement. Since 1984 he has held engineering and management positions in semiconductor device and product reliability at HP, Agilent Technologies, and Avago Technologies. He is currently a senior reliability engineer at Avago Technologies. From 1993-1999 he was a member of the Sematech Reliability Technical Advisory Board. He has authored papers on process technology, process control, and reliability. Dr. Eaton is a member of IEEE and the American Society for Quality (ASQ). He is a Certified Reliability Engineer of the ASQ.

Silicon integrated circuits (IC's) are highly reliable compared to mechanical components in a system. However, IC's do have certain intrinsic failure modes as well as failure modes due to anomalies in silicon wafer processing or packaging. The life of an IC consists of three parts: early life, useful life, and wearout. This presentation briefly discusses the MOS (Metal-Oxide-Silicon) integrated circuit. It then illustrates some failure mechanisms present in the silicon and the package in each of these time periods. Finally, it discusses the accelerated testing of IC's and steps semiconductor manufacturers take to eliminate failure mechanisms.

We need speakers for the 2006—2007 program calendar.


If you or someone you know would like to volunteer, please email us!



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Job Openings

New! Production Manager needed in Longmont. Please visit: <http://www.asq1309.com/jobopenings.htm>.

Submit your resume to: info@asq1309.com if you'd like it to be posted on our job seekers site.

Health Tip of the Month

Walk to Reduce Disease Risks

Summer is coming and that means great weather for exercising! Did you know that walking briskly 30 minutes or more every day can reduce your risk of heart disease and cancer? According to ACE (American Council on Exercise), more of the health benefits of physical activity can be derived at relatively moderate levels of exercise. For more information click on the Fitness Q&A link at the website <http://www.acefitness.org/getfit/> and click on tenth question down.

-Mei Purvis, ASQ Newsletter Editor & WebMaster

Volunteer For ASQ Section 1309 Board

Be a leader and earn RU's! We are currently filling board positions for this member year. We are seeking energetic, enthusiastic individuals to fill several board positions. Benefits of serving on the board include earning recertification points for your ASQ professional certification, visibility in the local quality community, the opportunity for free leadership training, and free ASQ membership for board members. If you are interested in volunteering, please contact any of the board members listed in this newsletter.

Open Positions:

Programs: Organizes monthly speakers and plans events such as holiday parties and fundraising.

Boulder Course Offerings

Course name	Course Fee ¹	Exam Date	Exam Application Deadline	Class Dates	Class Registration Deadline
1305 - Certified Software Quality Engineer (CSQE) Review	\$400/ \$450	Dec 2, 2006 Jun 2, 2007	Oct 6, 2006 Apr 6, 2007	Oct 11, 18, 25 Nov 1, 8, 15, 22, 29 2006 (24 hrs)	Sep 27, 2006
1301 - Certified Quality Engineer (CQE) Review	\$400/ \$450	Dec 2, 2006 Jun 2, 2007	Oct 6, 2006 Apr 6, 2007	Nov 4, 11, 18 2006 (24 hrs)	Oct 21, 2006
1302 – Certified Quality Auditor (CQA) Review *NEW BODY OF KNOWLEDGE	\$400/ \$450	Dec 2, 2006 Jun 2, 2007	Oct 6, 2006 Apr 6, 2007	Nov 4, 11, 18, 2006 (24 hrs)	Oct 21, 2006
1318 - Certified Quality Improvement Associate (CQIA) Review	\$250/ \$300	Dec 2, 2006 Jun 2, 2007	Oct 6, 2006 Apr 6, 2006	Nov 18, 2006 (8 hrs)	Nov 4, 2006
1303 - Certified Quality Technician (CQT) Review	\$400/ \$450	Oct. 21, 2006 Mar 3, 2007 Oct 20, 2007	Aug 18, 2006 Jan 12, 2007 Aug 17, 2007	Sep 30, Oct 7, 14, 2006 (24 hrs)	Sep 16, 2006
1304 - Certified Mechanical Inspector (CMI) Review	\$400/ \$450	Oct. 21, 2006 Mar 3, 2007 Oct 20, 2007	Aug 18, 2006 Jan 12, 2007 Aug 17, 2007	Sep 30, Oct 7, 14, 2006 (24 hrs)	Sep 16, 2006
1310 – Certified Manager of Quality / Organizational Excellence (CMQOE) Review	\$400/ \$450	Oct. 21, 2006 Mar 3, 2007 Oct 20, 2007	Aug 18, 2006 Jan 12, 2007 Aug 17, 2007	Sep 30, Oct 7, 14, 2006 (24 hrs)	Sep 16, 2006
1321-Six Sigma Overview Benefits, Basic tools, Analysis, Success Planning	\$325/ \$350	No direct ASQ Exam. This is a well-rounded course that fits company leaders and potential team members		Call (16 hrs) Times by appointment	Call for times
1322-ESD Simplified ESD: practical applications, economical protection, control and monitoring compliance.	\$225/ \$275	No direct ASQ Exam. Training may be specialized for your needs.		2006 (8 hrs or tailored to your needs)	Call for times

¹ASQ or other professional society member/non-member fee. Cost of primers, texts, workbooks, etc. are in addition to course fee.

A list of instructor biographies, course descriptions, and registration information can be found on the ASQ Boulder Section web site, <http://www.asq1313.org/>. Select the link for course offerings to obtain the registration form. If enough Northern Colorado section members sign-up for a class, the Boulder section is willing to consider a location in the Fort Collins area. If a class you need is not listed above, please contact the Boulder education chair David Woolever at Education@ASQ1313.ORG.

GUARANTEE: If you pay for and take one of Boulder's ASQ Certification review courses and still fail the Certification Exam, you may retake the course for free as many times as you need. The instructor reserves the right to charge for course materials (e.g., handouts, etc.).

ASQ Certification Local Exam Schedule

Exam Date	Application Deadline	Certification Exam
June 3, 2006	April 7, 2006	CQA, CQE, CSQE
Oct 21, 2006	Aug 18, 2006	SSBB, CMQ/OE, CMI, CRE, CHA, CBA, CQT

New Speakers Needed

We need speakers for the 2006—2007 program calendar. If you or someone you know would like to volunteer, please email us!

**This is the last meeting until next Fall.
Please have a great Summer!**

Newsletter or Website Submissions

Please contact info@asq1309.com for newsletter or website submissions. Acceptable submissions received before the 20th of each month will be included in the following month's newsletter or website. Examples of submissions are:

- Job Postings
- ASQ Member Resumes
- Ads (there is a fee for advertisements)
- Conference Information



Remember to go to www.asq.org for ASQ news, events, courses, job searches, and updates to your profile.

ASQ Northern Colorado
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