Reliability DIVISION Newsletter
December 2012 Volume 3, Issue 4

WELCOME

The ASQ Reliability Division is the largest group in the world promoting reliability training and education. This newsletter covers professional development opportunities plus division activities information and news.

Chair's Note

David Auda
Chair, Reliability Division of ASQ
(518) 385-0919
chair@asqrd.org

Dear Friends,

Happy New Year!

Another year provides opportunities for ASQ-RD and its members in many areas. To name a few: education & training, social responsibility, Reliability leadership in industry, career opportunity and advancement. Many of these can be enhanced by participating on the ASQ-RD Leadership team. We offer leadership opportunities for younger practitioners that can be used to enhance your job advancement. Call or email me if you would like to hear more.

Bottom line: get involved! At any level: local, section or national/international. If you are a Reliability professional your company WILL support you!

Social Media Participation

We are actively promoting online discussions through LinkedIn (ASQ Reliability Division), Twitter(@ASQ_Reliability) and Face book (ASQ Reliability Division) to exchange ideas, network and help each other grow professionally. These discussion groups are great places to ask questions, meet people and discuss best practices and skills. We want to develop a vibrant community in our online discussion groups. Also, engagements of volunteers to strength Reliability Division communication channels are very welcome…. Mauro Andreassa

In this edition

Announcements

The Reliability Calendar

Find a wide array of seminars, conferences, classes, webinars and more for your professional development from as many sources around the world as we can find. Visit www.reliabilitycalendar.com

ASQ RD LinkedIn Group

There is an ASQ RD Group within LinkedIn. Another forum to network, stay in touch and engage in professional discussions with your peers. Click here to link in.

ASQ RD webinars

Recorded webinars on topics relevant to reliability engineers delivered by subject matter experts. Visit http://asq.org/reliability/quality-information/webinars-reliability.html

Division Budget Update

Reliability Division Budget
Fiscal Year 2013 (January 1, 2013 - December 31, 2013)

		FY 12	FY 12	FY 13
ACCOUNT	DESCRIPTION	Budget	EAC	Budget
	REVENUE			
4000	Dues	$20,000	$25,000	$25,000
4100	Retail_Sales	$1,500	$250	$500
4200	Advertising	$2,000	$0	$4,000
4300	Registrations	$8,000	$17,300	$10,000
4870	Interest	$800	$180	$200
4872	Dividends	$0	$600	$600
4990	Miscellaneous	$0		
	TOTAL REVENUE	**$32,300**	**$43,330**	**$40,300**
	EXPENSES			
5100	Printing & Production	$800	$500	$800
5280	Promotional Giveaways	$150	$50	$100
5400	Postage & Shipping	$500	$800	$1,000
5500	Contract & Professional	$0	$400	$800
5573	Advertising	$0	$200	$200
5675	Equipment Rentals	$150	$300	$300
5800	Meetings & Banquets	$3,000	$5,000	$6,000
5900	Travel	$23,400	$21,100	$30,500
6000	Supplies	$500	$1,000	$100
6100	Telephone/Web	$1,800	$500	$1,000
6200	Partner Payment	$3,500	$3,500	$3,500
6310	Awards & Gifts	$2,300	$1,000	$1,700
6328	Donations/Scholarships	$0	$0	$0
6390	Other	$2,600	$2,600	$2,500
	TOTAL EXPENSES	$38,700	$36,950	$48,500
	NET INCOME/(LOSS)	($6,400)	$6,380	($8,200)

Want to upgrade your membership?

Get your leadership and professional achievements recognized by ASQ. Be a senior member and get rewarded with enhanced benefit selections. Learn more here.

As you can see from the Reliability Division budget in table to the left, we are budgeting for ~$8,000 more expenditures, with the net loss covered by current savings. If we have increased registration income from RAMS this year as we had last year or keep our travel expenses down, we should have an excess. That will allow us to consider further awards and scholarships.

Update provided by RD Treasurer Alfred Stevens.

When is the next certification exam?

The next exam date for CRE offered at the local sections is March 2nd, 2013. The application deadline for this exam is January 11, 2013.

Current CRE statistics:

There are currently 2,709 people holding CRE certification, 1249 of the CRE's are in the U.S. For calendar year 2012 there were 302 newly certified CRE's.

Volunteer Opportunities for CRE Exam Review:

If you are currently certified then you are eligible to participate in a workshop to prepare the next CRE exam. The next exam review workshop will be held at ASQ headquarters in Milwaukee, WI on April 19-20, 2013.

As a workshop participant you will assist the team in preparing the next CRE exam and you will receive 2 RUs towards recertification. Some pre-work is required and participants must sign a nondisclosure agreement which limits CRE exam preparation training for a period of two years. ASQ refunds travel expenses for the workshop.

If you are interested in participating in this workshop, or a future workshop please email Leslie Shattes at Leslie.Shattes@TE.com. Formal invitations for the workshop will be sent out in February, 2013.

35th Annual
ELECTRICAL OVERSTRESS/
ELECTROSTATIC DISCHARGE SYMPOSIUM
September 8-13, 2013 at Rio All Suite Hotel, Las Vegas, NV USA
CALL FOR PAPERS / CALL FOR STUDENT PAPERS
http://www.esda.org/symposia.html

Students submitting an abstract will be eligible for reduced (50% off) Symposium registration fee,

Abstract Submission Deadline January 11, 2013

Events

Professional Development Opportunities around the world

English Webinars

Improved Efficiency & Reliability for Servers Using Immersion Cooling Technology
By Cheryl Tulkoff
Jan 10th, 0900 US Pacific Coast Time
More information and to register

Chinese Webinars

New Chinese Webinars to be announced shortly. Please check Reliabilitycalendar.org

Conferences

RAMS 2013 *Reliability, the Key to a Better Bottom Line,* Rosen Shingle Creek Resort, Orlando, FL, January 28-31, 2013
RAMS 2013 link

International Reliability Innovations Conference, San Jose, CA, March 7, 2013
IRIC 2013 link

19th ISSAT, August 5-7, 2013, Hawaii, USA
19th ISSAT link

Reliability Division Webinar Series

Reliability division offers free Webinars in English, Spanish, and Chinese featuring leading international practitioners, academicians, and consultants. Enhance your reliability knowledge. For more information, click here:
http://reliabilitycalendar.org/webinars/
To date we have provided Recertification Units RU's to over 1575 individuals.

The webinar participates are extremely happy with the webinars based upon a follow-up survey that is administered after each webinar.

I will be able to use this information to improve my abilities and performance (5 is best) 4.0

I will recommend this course to others (5 is most likely) 4.4

The content of the webinar was logically covered and met my expectations (5 is best) 4.2

The instructor made me feel comfortable learning the material and should be invited back to present other webinars (5 is best) 4.5

The webinar was easy to connect to and the audio and video were acceptable (5 is best) 4.5

Here is what the attendees are saying:

"The case studies were interesting and to the point"

"Provided excellent explanations and background for those without the baseline knowledge on the subject"

"Simple, straightforward presentation, well-focused on the scope as advertised."

If you would like to suggest a topic or volunteer to present a webinar, please contact Fred Schenkelberg webinars@asqrd.org

Recordings of previous webinars are available to Reliability Division members on the ASQ Reliability Division website
www.asq.org/reliability

Regional Councilors

USA

Region 1 Mohammed PourgolMohammad
Mohammad.PourgolMohammad@fmglobal.com

Region 2 David Auda
davideauda@yahoo.com

Region 5 Ronia Char
ronia.s.chaar@census.gov
Aron Brall aron.brall-1@nasa.gov

Region 6 Fred Schenkelberg
fms@garlic.com

Region 10 Guangbin Yang
gyang1@ford.com

Region 11 Jason Overstreet
jason.l.overstreet@gmail.com

Region 12 Dan Burrows
Dan.Burrows@Panduit.com
Jim McLinn jmrel2@aol.com

Region 13 Mitchell Rausch
mitchell.rausch@gmail.com

Region 15 Alfred Stevens
asteve5@bellsouth.net

The Annual Reliability and Maintainability Symposium (RAMS)

The Annual Reliability and Maintainability Symposium (RAMS) is the premier event in the reliability, availability, and maintainability engineering disciplines. Combining tutorials, presentations, CEUs, certifications, and networking into one week-long program, the RAMS(r) delivers cutting edge information to all technical industries. RAMS(r) 2013 will be held at Rosen Shingle Creek Resort in Orlando, Florida, January 28-31, 2013. This year's theme is "Reliability, the Key to a Better Bottom Line".

RAMS 2013 will focus on the continuing development of reliability (and safety) as a competitive advantage in every industry from communications and energy to transportation and defense. In the history of this Symposium, reliability, maintainability, and safety have never been more crucial in the design, development, and operation of components, systems, and networks. Tutorials will provide fundamental exposure to topics ranging from introductory through intermediate to advanced, and are presented in two-hour in-depth sessions. 30-minute paper presentations and discussions will work to advance reliability research, using theory, success stories, and lessons learned.

Attendance at RAMS(r) presentations and tutorials may be used to earn CEUs, as well as RAMS(r) Tutorial Certification. ASQ Certification exams are also available onsite. The ASQ Reliability Division will be offering an eight hour workshop on Design of Experiments immediately following the Symposium at 1:00 to 5:00 pm on Thursday, Jan 31st and 8:00 am to noon on Friday, Feb 1st. You can register for the workshop during RAMS® registration.

Resources

Reliability Training Material

Slides from Quanterion Solutions Inc Lunchtime Learning series. Topics include Reliability distributions, Weibull analysis, FMEA, DOE.

Slides available at:
http://quanterion.com/Training/LunchtimeLearning/index.asp

Upcoming Reliability Events:
Click on:
http://reliabilitycalendar.org/?doing_wp_cron=1357595464.1207730770111083984375

Discussion

The ASQ Reliability Discussion Board continues to address member questions and provides a great way to network and discuss a wide range of reliability topics.

Visit http://www.asq.org/discussionBoards/forum.jspa?forumID=32 to join the discussion. (Note: you must be an ASQ member.)

ASQ's RD offering Design of Experiments Workshop at RAMS 2013!

ASQ-RD is Offering an 8 Hour workshop of Design of Experiments at RAMS

The ASQ Reliability Division will be offering an eight hour workshop on Design of Experiments immediately following the Symposium at 1:00 to 5:00 pm on Thursday, Jan 31st and 8:00 am to noon on Friday, 1st Feb. You can register for the workshop during RAMS® registration. ASQ RD members get a $100 discount on the workshop by using code RD2013.

Please visit www.rams.org for more information!

CALL FOR PAPERS

$1000 Annual Award for Best RELIABILITY Paper

The first award for 2011-2012 has been granted. Congratulations to Rong Pan and Luis Mejia Sanchez for their paper entitled, "An Enhanced Parenting Process: Predicting Reliability in Product's Design Phase."

Continuing in 2012-2013, the ASQ Reliability Division will administer a $1000 annual award for the best Reliability focused paper published in Quality Engineering. Published papers will be evaluated for the four issues on the July-June calendar.

Note – to be eligible for the award, at least one of the authors for a paper must be a member of the ASQ Reliability Division when their paper is published.

For more information: Trevor.A.Craney@shell.com

To submit papers for publication:
http://mc.manuscriptcentral.com/lqen

Regional Councilors

International

China: Steven
mingbin.a.chen@INVISTA.com

UK: Sibson Dalgo Edakara
sibsondalgo@gmail.com

India: Anand Keerthi
keerthi.anand@ge.com

Brazil: João Luiz Mapel Junior
jmapeljr@gmail.com

Qatar: Gehadeldin Hamoda
gehadeldin@msn.com

Venezuela: Ernesto Primera
ernesto.primera@gmail.com

Canada - Alberta: Sumit Chatterjee
sumitc2000@gmail.com

Valuable Training from the ASQ Learning Institute

With training from The ASQ Learning Institute™, you gain the knowledge and skills you need to prove you're a valuable asset to your organization. Many of our courses also count toward recertification units (RUs).

Register for one of these upcoming courses today. And remember, because you are a valued ASQ member, you can take advantage of member pricing on the training listed below. You can **save up to $200** on the list price of these courses!

January 2013	Supplier Management for the Medical Device Industry
Classroom Courses (instructor-led)	Process Validation for Medical Device
February 2013 - Phoenix, AZ	Certified Biomedical Auditor Exam Preparation

Visit The ASQ Learning Institute™ for a list of all courses ASQ has to offer.

19TH ISSAT INTERNATIONAL CONFERENCE ON RELIABILITY AND QUALITY IN DESIGN

AUGUST 5-7, 2013 • HAWAII, U.S.A.

CALL FOR PAPERS

SPONSOR

The International Society of Science and Applied Technologies (ISSAT)
In cooperation with ASQ Reliability Division.

THEME

The ISSAT International Conference on Reliability and Quality in Design is an international forum for presentation of new results, research development, and applications in reliability and quality in design. Papers may address any aspect of reliability and quality in design. Papers dealing with case studies, experimental results, or applications of new or well-known theory to the solution of actual reliability and quality problems in engineering design are of particular interest.

TOPICS OF INTEREST

- Reliability
- Modeling Analysis and Simulation
- Fault Tolerance
- Quality Assurance and Cost Issues
- Optimization
- Software Reliability and Testing
- Survival Data Analysis
- Maintainability and Availability
- Data Collection and Analysis
- Human Factors and Reliability
- Concurrent Engineering and Design
- Performance Analysis
- Experimental Design for Quality Control
- Statistical Approaches in Reliability
- Data Computing
- Software and Algorithms
- Methodologies for Quality Control
- Robust Design
- Safety-Critical and High Assurance Systems
- Risk Assessment Modeling
- Reliability Modeling and Testing
- Network Reliability
- Design Issues in Manufacturing
- Process Control and Management
- Quality Planning and Measurements
- Engineering Design Optimization
- Quality Engineering
- Total Quality Management Techniques
- Parallel and Distributed Computing
- Life Testing

SUBMISSION OF PAPERS

Full manuscript should be submitted electronically in either PDF or MS-Word, by February 15, 2013, to Conference Secretary at rqd@issatconferences.org. All papers must include authors' names, affiliations, and current email addresses. Please visit our website for more information.

All submitted papers will be reviewed for merit and contents.

BEST PAPER AWARDS / JOURNAL PUBLICATIONS

Two outstanding papers presented at the conference will be chosen for the ISSAT Best Paper and Best Student Paper Awards. Accepted papers will be published in the Conference Proceedings. Selected previous ISSAT Conference Proceedings are indexed in ISI Citation and Proceedings indexes. Outstanding papers will be considered for publication in special issues of the International Journal of Reliability, Quality and Safety Engineering (IJRQSE)

IMPORTANT DATES

Full Paper Submission Deadline	February 15, 2013
Notification of Acceptance/Rejection	March 31, 2013
Camera Ready Papers Due	May 15, 2013

For more information, please visit our website at

www.issatconferences.org

Division Store

Mechanical Design Reliability - by James A. McLinn, CRE & Fellow, ASQ

Mechanical design reliability has been a sparsely covered topic. This monograph is instructive for practical engineers desiring to understand and test materials and mechanical systems. It addresses the concepts of stress, strain, tension, shear and material fatigue. Elastic limits and plastic deformation is modeled as well as creep situations. Accelerated life, Miner's rule and non-normal material strength and variable load distributions are modeled and illustrated in the 80 pages. Available at $25.00 each, plus postage.

Practical Weibull Analysis - 5th edition by James A. McLinn, CRE & Fellow, ASQ
This monograph presents practical discussion and examples of essential Weibull topics. Most textbooks on this subject require extensive statistical background. This book was designed to be direct and to the point. In 75 pages it leads the reader quickly through the principles of Weibull analysis. The useful examples and Weibull graphs illustrate applications such as confidence calculations, non-straight lines on a Weibull plot, optimum replacement costs, maintainability, and analysis of accelerated life tests and multiple stress tests. Just $30.00 each, plus postage.

Credible Reliability Prediction - by Laurence George, Ph.D., ASQ Fellow

This monograph extends MTBF prediction to predict the age-specific reliability of redundant, stand-by, complex, and life-limited systems. The method uses field reliability data and proportional hazards models. Data are from older, comparable products because product generations have similar reliability functions despite changes. Price is $25.00 each, plus postage. Electronic version available.

Practical Accelerated Life Testing - by James A McLinn, CRE & Fellow ASQ
A 125 page book that simply and uniquely delineates the key steps and guidelines for setting-up and administrating accelerated life tests. In eight sections it covers a brief history of accelerated methods, applications of the techniques, guidelines for test selecting test environments, common test methods, practical guidelines for test set-up, key parameters to monitor, sample size decisions, models for analysis and examples of analysis of difficult results. Important guidelines and pitfalls to avoid are given. Examples include multiple level tests and step-stress tests. Just $30.00 each, plus postage.

To Order

Shipping & Handling:

$7.00 first copy, $3.00 each additional copy within U.S. Request quote outside U.S.

Payment by Credit Card or PayPal in US Dollars. Send orders to James McLinn at JMRel2@aol.com. You will be sent an invoice via PayPal and upon payment your order will be sent to you. You do not need a PayPal account.

Are you interested in volunteering? Would you like to develop your leadership and team work skills, in a team where you can make a difference?

ASQ Reliability Division leadership team is looking for a secretarial co-chair to join us. Responsibilities include documentation and communication within the division, with the members and with ASQ Global. You will find the requirements for the position in this document http://asq.org/member-leader-community/positions/division-secretary/details/index.html

If you are interested, please send your details to chair@asqrd.org.

Division Store - continued

Develop Reliable Software at Low Life Cycle Cost: With Upgraded Software Reliability Engineering - by Norman F. Schneidewind, Ph.D. and related articles by Samuel J.Keene, Ph.D.
The contents of this monograph present for software engineers, reliability engineers and software quality specialists, and managers practical tools and methods which the authors have perfected and applied in a broad range of enterprises. They include strategy and tactics for improvement of the software engineering process, software reliability models, development of trustworthy code, and reliability assessment throughout the product life cycle. Price is $25.00 each, plus postage.

Design For Reliability - by Xijin (Bill) Tian, Ph.D., with added chapters by Drs. L.L. George, S.J. Keene, plus T. Craney and J. McLinn
This new monograph contains the entire series of articles written by Dr. Tian plus much more! The authors clearly describe practical methods they employ in effectively ensuring that high reliability goals are achieved. They integrate reliability improvement practices and methods congruent with project design rules. The additional chapters present relevant material by Drs. Larry George and Sam Keene, plus input from Trevor Craney, and James McLinn. The contents offer a practical Benchmark of resource for reliability and maintainability engineers. Price is $30.00 each, plus postage.

Homeland Security And Reliability Airport Model - by Norman F. Schneidewind, IEEE Congressional Fellow, IEEE Fellow, Professor Emeritus: Information Sciences, Naval Postgraduate School
Dr. Schneidewind's model presented in this monograph addresses the airport security problem. It facilitated his specific recommendations to the U.S. Congress for legislative or management action to close the security loopholes. Model quantitative results are used to delineate the implications for changes in security policy at the nation's airports. The work presents solutions which maybe extended to many other security settings. Price is $20.00 each, plus postage.

To Order

Shipping & Handling:

$7.00 first copy, $3.00 each additional copy within U.S. Request quote outside U.S.

Payment by Credit Card or PayPal in US Dollars. Send orders to James McLinn at JMRel2@aol.com. You will be sent an invoice via PayPal and upon payment your order will be sent to you. You do not need a PayPal account.

Contact James McLinn at JMReL2@Aol.com to purchase a monograph.

For **International Delivery** charges contact us via e-mail with complete order and delivery address. We will quote delivery charges . E-mail: JMReL2@Aol.com

The ASQ-RD Leadership Team structure is changing for 2013 as are some of the position holders. Please refer to the chart below. It will be business as normal and the new structure will provide a more dynamic and responsive division that structure to meet members requirements.

2013 ASQ Reliability Division

Leadership			
Chair	Chair-Elect	Treasurer	Secretary
Dave Auda	Trevor Craney	Alfred Stevens	Dave Gregerson

Continuing Education & Networking	
Education Chair	Jim Breneman
Conferences Vice-Chair	Marc Banghart
RAMS BoD Representatives	Trevor Craney
	Alfred Stevens
ASTR Tech Comm Representatives	Marc Banghart
	Jim McLinn
ISSAT Liaison	Guanghin Yang

Awards	
QE Best Paper Chair	Trevor Craney
RAMS Best Paper Chair	John Bowles

Leadership Team Support	
Membership Chair	Bob Stoddard
Audit Chair	Chris Deepak
Nominations Chair	Mark Durivage
Fellow Nominations	Charlie Plotkin
Communications Chair	Mauro Andreas
Social Media Adjuncts	Aimee Siegler
	Jennifer Stepniewski
Social Responsibility Representative	Kristina Bergkvist

Outreach	
Newsletter Editors	Jim Breneman
Marketing	Jim Breneman
ASQ.org website	Jim Breneman
ASQRD.org website	Alfred Stevens
	Marc Banghart
Monographs Editor	Fred Schenkelberg
CRE Liaison	
LinkedIn Moderators	Deniz Eroglu
	Kristina Bergkvist
Regional Councilors	Dan Burrows (N.Amer)
	Ernesto Primera (Int'l)

Webinars	
Executive Producer	Fred Schenkelberg
English Hosts	Dave Auda
	Cheryl Tulkoff
	Michael Parrillo
Spanish Hosts	Alejandro Ordaz
	Ernesto Primera
Chinese Hosts	Frank Sun
	Wendal Wang
Speaker Manager	Marc Banghart
Copyright Manager	Bart Chase
Publicity Manager	Mauro Andreas
GTW & GC Scheduler	Myron Duvall
Data Analyst	Mark Durivage
Marketing	Jim Breneman
Producer	Dave Auda

Last updated Oct. 26, 2012
by Trevor Craney

OUR 60TH YEAR

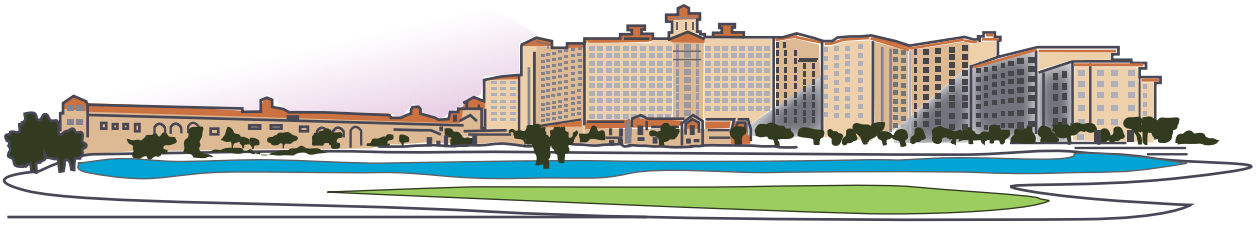
January 28-31, 2013

RAMS®

The Annual Reliability and Maintainability Symposium

"Reliability, the Key to a Better Bottom Line"

Mark your calendars now for RAMS® 2013 at the Rosen Shingle Creek Resort in Orlando, Florida



RAMS® IS THE PREMIER EVENT for the reliability, availability, and maintainability engineering disciplines. Combining tutorials, panels, technical presentations, exhibits, CEUs, certifications, and networking into a four-day program, the RAMS® delivers the best value in cutting edge information for all technical industries.

RAMS® 2013: It is our 60th year of presenting the Symposium, and it will be held at the Rosen Shingle Creek Resort in Orlando, Florida, January 28-31, 2013. Our 60th year is a significant milestone, and our Program promises to be strong and diverse, providing something of interest to all.

The theme of the Symposium is: "Reliability, the Key to a Better Bottom Line."

ADVANCED REGISTRATION IS NOW OPEN.
For details visit http://www.rams.org.
Check out special discounts for early-bird registration.
Early bird rate until 12/17/2012

We look forward to seeing you in Orlando at RAMS® 2013.

SPONSORED BY:

ASQ Electronics and Communications Division — The Global Voice of Quality™

ASQ Reliability Division — The Global Voice of Quality™

IIE IEST™ AIAA

IEEE Reliability Society SAE International

SRE SSS

RAMS® 2013 PROGRAM MATRIX

Date	Time	Session	TRACK / ROOM				
			A Penzacola F1	B Penzacola F2	C Penzacola F3	D Penzacola F4	E Penzacola G2
MONDAY January 28	8:00-10:00	1	An Introduction to Probability Models in Reliability & Maintainability (T)	Overview of Functional Safety Concepts & the IEC61508 Std (T)	Innovations in Accelerated Life Testing (T)	Risk Analysis & Management - General Applications (PS)	R&M in Aerospace Design & Development (PS)
	10:15-12:15	2		Understanding Accelerated Life Testing (T)	Practical Examples of Accelerated Life Testing (PS)	Physics of Failure Modeling (PS)	Economic Models for Reliability & Maintainability (PS)
	13:30-14:45	3	**General Chair's Welcome & Keynote Room Sebastian J**				
	15:00-17:00	4	Introduction to R&M Management (T)	Design for Reliability - Tools & Processes (T)	The Reliability Challenges of Emerging Robotics Applications (P)	R&M Applications in Aircraft Systems (PS)	Applications of Diagnostics and Prognostics (PS)
TUESDAY January 29	8:00-10:00	5	Introduction to Life Data Analysis (T)	Preventing Software Failures (T)	System Safety Applications (PS)	R&M Applications in Manufacturing (PS)	Supplier & Field R&M Management (PS)
	10:15-12:15	6		Electronic Part Failure Analysis Tools and Techniques (T)	Software Reliability Analysis (PS)	R&M Applications in Military Aerospace & Satellite Systems (PS)h	Time Based Analysis for Prognostic/Diagnostic Design (PS)
	13:30-15:30	7	Introduction to Fault Tree Analysis (T)	The Cautious Use of Baysian Methods in Reliability Data Analyses (T)	Reliability Prediction Using Bayesian Updating of On-Orbit Performance (P)	Modeling of Degradation Processes (PS)	Industry & DoD R&M Management Experiences (PS)
	15:45-17:45	8	Fundamentals of Failure Modes and Effects Analysis (T)	Accelerated Degradation Tests for Rapid Reliability Evaluation (T)	Life Data Analysis Applications (PS)	Risk Analysis & Management in Aerospace & Military Applications (PS)	Reliability Modeling Applications (PS)
	18:00-20:00		**Poster Session & Reception**				
WEDNESDAY January 30	8:00-10:00	9	The Cost Benefit of Reliability and Maintainability Activities (T)	Dealing With Complexity in Failure Modes and Effects Analysis (T)	Test Data Analysis (PS)	R&M Applications in NASA Space Systems (PS)	Special Topics in Reliability Modeling (PS)
	10:15-12:15	10	**Advisory Board Panel Room Penzacola G&H**				
	13:30-15:30	11	Intro To Reliability Physics & Physics of Failure Methods (T)	Developing a Cost Effective Reliability Program (T)	Reliability in Health Care (P)	Software FMEA (PS)	Reliability Modeling With Economic Models (PS)
	15:45-17:45	12	Determining Right Sample Sizes for Your Test: Theory & App (T)	Introduction to Quantification of Reliability Burn-in & Environmental Stress Screaning (T)	Medical Device Reliability and Maintainability (PS)	Repairable Systems Modeling (PS)	Reliability Prediction With Life Data Analysis (PS)
	18:30-21:30		**General Reception & Banquet Gatlin Terrace & Gatlin B**				
THURSDAY January 31	8:00-10:00	13	An Introduction to Readiness-Based Sparing (T)	R&M in Manufacturing - Beyond Condition Monitoring (T)	R&M Management Challenges (PS)	Safety & Risk Analysis in Complex Systems (PS)	Reliability Modeling of Physical Systems (PS)
	10:15-12:15	14	Human Reliability Analysis (T)	Effective Reliability Program Traits and Management (T)	Risk Analysis and Management in the Energy Industry (PS)	Physics of Failure in Electronic Systems (PS)	RAM Optimization Through Modeling (PS)
	12:15-12:45		**Ice Cream Social**				

(T) = Tutorial (PS) = Paper Session (P) = Panel

Division Leadership

Chair
David Auda
(301) 790-5400 x3128
chair@asqrd.org

Chair Elect
Trevor Craney

chairelect@asqrd.org

Secretary
David Gregerson

secretary@asqrd.org

Treasurer
Alfred Stevens
(321) 537-3101
treasurer@asqrd.org

Membership Chair
Robert Stoddard

membership@asqrd.org

Program Chair
Frank Straka

programs@asqrd.org

Publications Chair
Richard Cass

publications@asqrd.org

Nominating & Past Chair
James McLinn
(763) 498-8814
jmrel2@aol.com

Audit
James (Chris) Deepak
(281) 871-7128
chris.deepak@haliburton.com

CRE Exam Chair
Leslie Shattes

leslie.shattes@te.com

Standards Liaison
John Healy

johndhealy@verizon.net

RAMS Board Liaisons
Alfred Stevens

asteve5@bellsouth.net

Tech Briefs Editor
Marc Banghart

techbriefs@asqrd.org

Education Chair & Newsletter Editor
Jim Breneman
newsletter@asqrd.org

Links

The Linkedin groups

Reliability Calendar

http://www.linkedin.com/e/-mpj7v-gq000w4o-54/vgh/3997941/

Tech Briefs

http://www.linkedin.com/groups?about=&gid=3994573

ASQ Reliability Division

http://www.linkedin.com/groups?about=&gid=1875217

Last Note

The ASQ Reliability Division is a major professional specialty association within the framework of the American Society for Quality. Its members have a particular expertise and interest in reliability and related disciplines. Division activities include professional development opportunities with reliability, maintainability, quality, safety, and effectiveness of products, processes and services and with related topics such as product liability and risk management.

Editor's Note: Jim Breneman is now your ASQ-RD Newsletter Editor, in addition to his responsibilities as Education Chair. Members are encouraged to share their experience by providing newsletter content and to tell us what you want to see in these pages to newsletter@asqrd.org .

2012 Newsletter editor- Peter Stuart