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
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.

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

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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.

Professional Reliability Consulting, Testing, and Training Services
We provide customized solutions to optimize your product reliability.

We own one of the oldest & most experienced reliability labs.

We Provide Confidence in Reliability!™

Ops A La Carte’s Managing Partner Mike Silverman will be traveling around the US and Europe this winter. We will visit Chicago, London, Germany, Prague, Orlando, Miami, Denver, San Diego, Anaheim, and LA.

Ph: (408) 654-0499 <-> info@opsalacarte.com <-> www.opsalacarte.com
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
What is the Synthesis Platform?

Created with your business needs in mind, Synthesis is an integrated reliability platform that can unite any or all of ReliaSoft’s “best-in-class” reliability engineering applications into a powerful, easy-to-deploy, enterprise-capable, integrated reliability solution. This groundbreaking new framework provides intelligent integration between reliability program activities and tools, while simultaneously facilitating effective information sharing and cooperation between engineering teams of any size. The end result is the ability to maximize the efficiency and effectiveness of reliability activities, which results in time savings, agility and reductions in both time-to-market and cost, while maximizing the achieved reliability and associated ROI. That’s the power of the Synthesis Platform!

Do I have to use the Synthesis Platform with my version 8 Upgrade?

The Synthesis Platform is directly integrated into the Version 8 upgrades and there is nothing extra to buy or install. You have the option to continue to use the software as a simple standalone application or you can choose to take advantage of the powerful integration opportunities offered by the Synthesis Platform. Either way, you will benefit from the completely updated user interface (with an "Office 2010" look and feel), and numerous usability and functionality enhancements. The new interface takes advantage of an active internet connection to deliver the most up-to-date announcements, documentation, theoretical resources and examples.

How does this revolutionary platform enhance reliability analysis?

Synthesis is as much about having the right tools as it is about having the right process. Instead of continuing to implement reliability activities in a discrete, sequential and self-contained fashion, the Synthesis Platform creates a centralized corporate repository of reliability information that will provide significant time savings for future projects. Synthesis gives reliability professionals the integration capabilities they have been looking for to truly maximize potential for product reliability improvements and the associated return on investment.

ReliaSoft
Empowering The Reliability Professional

NEW VERSION 8 UPGRADES AVAILABLE FOR WEIBULL++, ALTA, BLOCKSIM, XFMEA AND RCM++
DOWNLOAD A FREE TRIAL AT RELIASOFT.COM | FOR SALES SUPPORT, CALL 1-888-886-0410
ReliaSoft Corporation is the global leader in reliability engineering software, training and services that combine the latest theoretical advances with essential tools for the practitioner in the field. We are dedicated to meeting the reliability, quality and maintenance planning needs of product manufacturers and equipment operators worldwide.

**SOFTWARE TOOLS**

Acclaimed for their ease of use, analytical power and unparalleled technical support, ReliaSoft’s software tools facilitate a comprehensive set of reliability-related analysis techniques. The new Synthesis Platform® facilitates intelligent integration between analysis tools.

- **Weibull++**
  Life data analysis
- **BlockSim**
  System analysis using block diagrams or fault trees
- **ALTA**
  Accelerated life testing data analysis
- **Xfmea**
  FMEA/FMECA and related analyses
- **DOE++**
  Experiment design and analysis
- **RCM++**
  Reliability centered maintenance analysis
- **RGA**
  Reliability growth analysis
- **RENO**
  Visual stochastic event simulation and risk analysis
- **Predict**
  Standards based reliability prediction
- **XFRACAS**
  FAICA/FRACAS activities
- **MPC**
  MSG-3 aircraft systems and powerplant analysis
- **Orion eAPI**
  Web-based asset performance management

**EDUCATION**

ReliaSoft offers an extensive curriculum of reliability training courses that provide thorough coverage of the underlying principles and theory as well as the applicable software tools. The complete course list and calendar of upcoming public seminars are published on the web.

**CONSULTING**

ReliaSoft’s expert reliability consulting services team offers a uniquely powerful combination of industry insight, unparalleled subject mastery and, most important of all, direct access to all of ReliaSoft’s global resources, expertise and contacts.

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 participants 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
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. 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

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

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.
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.

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

Advertise Here!
Want to reach the entire Reliability Division community in the US and across the globe? Reliability Division newsletter is now accepting advertisements at very reasonable rates.

Please contact the Editor (newsletter@asqrd.org) to get more information on advertising space and rates.
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 Chart]

Last updated Oct. 26, 2012
by Trevor Grane}

<references>
</references>
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.
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Session</th>
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### Division Leadership

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<tr>
<th>Role</th>
<th>Name</th>
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<tr>
<td>Chair</td>
<td>David Auda (301) 790-5400 x3128</td>
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<td>Secretary</td>
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<td>Audit</td>
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</tr>
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<td>RAMS Board Liaisons</td>
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<tr>
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<td>Marc Banghart</td>
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</tr>
<tr>
<td>Education Chair &amp; Newsletter Editor</td>
<td>Jim Breneman</td>
<td><a href="mailto:newsletter@asqrd.org">newsletter@asqrd.org</a></td>
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### Links

- **The Linkedin groups**
  - Reliability Calendar: [http://www.linkedin.com/e/-mpi7v-gq000w40-54/vgh/3997941/](http://www.linkedin.com/e/-mpi7v-gq000w40-54/vgh/3997941/)
  - Tech Briefs: [http://www.linkedin.com/groups?about=&gid=3994573](http://www.linkedin.com/groups?about=&gid=3994573)
  - ASQ Reliability Division: [http://www.linkedin.com/groups?about=&gid=1875217](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.

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**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