

2011 CALL FOR PAPERS & TUTORIALS



The Annual Reliability and Maintainability Symposium

www.rams.org

JANUARY 24 - 27

DISNEY'S CONTEMPORARY RESORT

LAKE BUENA VISTA, FL USA

The Role of Reliability and Maintainability in Design for Sustainability

The 57th Annual Reliability & Maintainability Symposium (RAMS) will be held in Orlando, Florida, in 2011. As organizations strive to make their products, processes, and services more sustainable, the role of reliability and maintainability is becoming more important. More reliable products require less spare parts and result in less scrapped systems. More effective maintenance procedures result in equipment that consumes fewer resources, particularly electricity. As organizations create new technologies to support sustainability efforts, reliability and maintainability professionals are needed to ensure that these technologies operate effectively and economically. These contributions to sustainability add to the traditional importance of reliability and maintainability. Customers expect products that operate without failure, and in the event of rare failures, are easy to maintain. In the highly competitive global marketplace, high reliability and maintainability are prerequisites for maintaining a competitive edge. As a result, reliability and maintainability practitioners are developing new ways to design and implement systems, to collect and analyze data, to manage activities and processes, to plan and execute tests, and to formulate and evaluate mathematical models, all for the purpose of improving reliability, maintainability, and sustainability. We want to learn more about your efforts in this regard.

With this in mind, we invite you to share your research - theoretical or practical, success stories, lessons learned, R&M knowledge, and R&M discoveries at the 2011 RAMS in Orlando. Tell us how you are contributing to sustainability by applying reliability and maintainability concepts. Tell us how you are using reliability and maintainability in other pursuits. RAMS is the premier forum for sharing your experience, knowledge, and roadmaps to success. Make your contribution to the advancement of the R&M discipline and enjoy in the rich exchange of ideas and solutions. We want you to contribute your unique experience to our synergistic symposium sponsored by ten professional societies. Plan to submit your paper or tutorial now.

Papers are the medium to advance the state-of-the-art and will be published in the Proceedings and have a ½ hour summary presentation (including a discussion period) at the Symposium. Our Proceedings is published in IEEE Xplore. Tutorials provide fundamental exposure to topics ranging from introductory through intermediate to advanced. They are presented in two-hour in-depth sessions at the Symposium. Examples of the most recent written papers and tutorials are available in the 2010 Proceedings and the 2010 Tutorial Notes. The process for presenting a paper or tutorial at 2011 RAMS begins with your submission of an abstract. Your submittal should address topics related to reliability and maintainability that are relevant to our theme, e.g.:

Accelerated Life Testing
Equipment Diagnostics and Prognostics
FMEA
Fault Tree Analysis
Human Reliability
Life Data Analysis
Physical Reliability Models
R&M Applications in Aerospace
R&M Applications in Health Care
R&M Applications in Manufacturing

R&M Applications in Service
R&M Management
Reliability Modeling
Repairable Systems Modeling
Risk Analysis and Management
Software Reliability Analysis
System Safety
Warranties
(See web site or recent *Tutorial Notes* for other topics.)

Dr. C. Richard Cassady, General Chair, 2011 RAMS

Additional RAMS information is available on the World Wide Web at www.rams.org

For Submittal Procedure, See Reverse Side

ABSTRACT SUBMISSION DEADLINE — Monday, April 19, 2010

The Annual Reliability and Maintainability Symposium is nonprofit and is sponsored by the following societies:



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The Role of Reliability and Maintainability in Design for Sustainability

If you wish to present a paper or tutorial at 2011 RAMS, now is the time to begin your preparation. All papers must be new, that is to say, neither published nor presented at a national or international meeting prior to the Symposium. Papers presented at local meetings are acceptable. Tutorials must address key issue areas in reliability and maintainability. To have your paper or tutorial considered for 2011 RAMS, you must first submit an abstract. **Abstracts must be submitted via www.rams.org, and the abstract submission process will be available from February 15, 2010, until April 19, 2010.**

To submit an abstract for a paper, an author must provide the following:

- a title of no more than 70 characters
- an abstract (all text—no equations, figures, or tables) of no more than 1000 words
- names and contact information for all authors
- an indication of which author will present the paper (if it is accepted) at the Symposium
- one or two relevant topic areas for their abstract (from the list on the front page of this Call for Papers)

The title and abstract must be written such that none of the authors are identified. Authors will also be asked to indicate if any authors are full-time students (to assess qualification for the RAMS student paper award), and to which (if any) of the ten RAMS sponsoring societies each author belongs. Note that membership in a RAMS sponsoring society is not required.

There is no limit to the number of an abstracts an author can submit, but no paper can have more than four authors (authors cannot be added to a paper after the April 19, 2010, deadline) and no author can be affiliated with more than two papers in the final Proceedings.

To submit an abstract for a tutorial, an author must provide the following:

- a title of no more than 70 characters
- an abstract (all text—no equations, figures, or tables) of no more than 1000 words
- names and contact information for all authors

Authors will also be asked to which (if any) of the ten RAMS sponsoring societies each author belongs. Note that membership in a RAMS sponsoring society is not required.

There is no limit to the number of an abstracts an author can submit, but no tutorial can have more than two authors (authors cannot be added to a tutorial after the April 19, 2010, deadline) and no author can be affiliated with more than one tutorial at the Symposium.

Upon receipt of your abstract, you will receive a confirmation e-mail from RAMS. Therefore, it is critical that authors provide a valid e-mail address that can accept e-mail from www.rams.org. **Note that all correspondence regarding papers and tutorials will be sent to the e-mail address of the author who submits the abstract.**

Review Procedure for Papers — In May, 2010, the RAMS Program Committee selects a preliminary program of candidate papers. Selection of candidate papers is based on innovativeness, technical merit, clarity, and relevance to the Symposium theme, as demonstrated by the abstract.

Authors will be notified in late-May, 2010, of their status. Authors of candidate papers are required to submit complete drafts of both the paper and presentation slides by the end of July, 2010. The requirements for papers and presentation slides will be communicated to authors in a timely fashion. Draft candidate papers will be subjected to review by the Program Committee and peer review (authors will be asked to review at least two other candidate papers). Authors will be given feedback on their draft papers and presentation slides by the end of August, 2010.

Authors of candidate papers must submit their final paper and presentation slides by the end of September, 2010. Final papers will be reviewed by both the Program Committee and the RAMS Proceedings Editor. At this time, authors must also complete a RAMS Copyright Form, and at least one author of candidate papers must register (at a reduced fee) for the Symposium.

By submitting an abstract for a paper, the author is accepting the condition that a candidate paper may be rejected at any time if the Program Committee determines that the author is failing to comply with RAMS deadlines or policies, or if the Program Committee determines that the content of the paper is not of sufficient quality to merit publication in the Proceedings. For more information contact the Program Chair, Aron Brall, at aron.brall-1@nasa.gov.

Review Procedure for Tutorials — The review procedure for tutorials is identical to the review procedure for papers with the following exceptions:

- draft tutorials are not subjected to peer review (only Program Committee review)
- authors of accepted tutorials receive gratis registration for the Symposium

For more information, contact the Tutorials Coordinator, Caroline Lubert, at lubertcp@jmu.edu.

By submitting an abstract for a paper, the author is accepting the condition that if their paper is ultimately accepted into the Proceedings, at least one author on the paper will register for the Symposium, attend the Symposium, and present the paper at the Symposium in reasonably fluent English.

By submitting an abstract for a tutorial, the author is accepting the condition that if their tutorial is ultimately accepted into the Symposium, the author on co-authors will attend the Symposium and deliver the tutorial at the Symposium in reasonably fluent English.

For Technical Information, See Reverse Side

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