



**August 2016 Newsletter**  
**The IEEE Reliability Society**  
**Joint Section Chapter: Boston - New Hampshire - Providence**  
**Apr 2016 – Aug 2016**  
<http://www.ieee.org/bostonrel>

Greetings!! Hoping that you are yours are enjoying a well-deserved summer break and taking full advantage of the many recreational activities unique to New England. If you would like to present a reliability based topic at a future meeting, have meeting topic suggestions or ideas about how to improve our meetings, we want to hear from you! Please send an e-mail to any of the AdCom members or go to our website listed above and click on *Suggest a Meeting Topic*. You can also be added to the Chapter e-notice distribution by clicking on the *Subscribe to E-Notices* link. We are happy to announce that we won 3<sup>rd</sup> place among all the IEEE Reliability Chapters worldwide! Thanks to your participation and enthusiasm in making this happen. It's a testament to your dedication to the Chapter and your ongoing contributions to IEEE's stated commitment of Advancing Technology for Humanity. The concomitant award monies will be applied directly to our Chapter treasury towards making future meetings successful and continuing to provide our members with networking and career development opportunities. Be on the lookout for an upcoming request to help us win the 2<sup>nd</sup> Place award next time!

Best Regards



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### Recent Activities:

- May 11, 2016                      “HALT In the Product Development Process” by Adam Bahret, Apex Ridge Reliability Consulting, held at M/A-COM Technology, Lowell, MA.
- June 7, 2016                      “An Industrial Physicist's Journey through the World of Semiconductor Reliability” by Dr. Charles Recchia, held at Ohio State University Union, Barbie Tootle Room, 3<sup>rd</sup> Floor, Columbus, OH.

### Upcoming Events:

- September 14, 2016              “Software Reliability: Tools and Algorithms” by Dr. Lance Fiondella, UMass Dartmouth, at MIT Lincoln Lab, Lexington, MA
- September 28-30, 2016            **2016 Accelerated Stress Testing and Reliability (ASTR) Conference**, Hilton Pensacola Beach, Pensacola Beach FL 32561
- Keynote Speaker Dr. William Meeker, Professor of Statistics and Distinguished Professor of Liberal Arts and Sciences at Iowa State University.
  - Featured Speakers Dr. Elisabetta Jerome, Technical Advisor, Armament and Weapons Test and Evaluation, Eglin Air Force, Florida and Dr. Andre Kleyner, Global Reliability Engineering Leader, Delphi Electronics & Safety.
- Visit [here](#) to register.
- October 19, 2016                    “**The Design Engineer: Weak link or Warrior in the ESD Battle?**” by Ginger Hansel, Director of ESD Program Management, Dangelmayer Associates LLC, joint meeting with NE-ESDA at MIT Lincoln Lab, Lexington, MA.

## Recent Chapter Activities

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### **“HALT In the Product Development Process”**

On May 11, 2016 Adam Bahret, Apex Ridge Reliability presented on how HALT fits into the product development process, covering what program step outputs can be fed into HALT and how HALT results can be used to improve adjacent program tools. Connecting HALT with reliability tools like FMEA, FTA, Allocation Modeling, ESS, HASS, and Stress Strength analysis has significantly more program impact than the contribution of each tool individually.

Bio: Adam is the founder of Apex Ridge Reliability Consulting Services. He is a Mechanical and Electrical Systems Reliability expert with 20 years of experience in product development across many industries. He has worked extensively with reliability program strategy, accelerated testing methods HALT/HASS/QALT/ALT, system reliability measurement and improvement, predictive analysis, education programs, and organizational culture and practices. He has specialized experience in medical, robotics, consumer electronics/appliances, Ion Implantation, and Diesel Systems.

Adam recently published the second edition of the book “How Reliable Is Your Product? 50 Ways to Improve Product Reliability co-authored with Mike Silverman.

He has an MS in Mechanical Engineering from Northeastern University, is an ASQ nationally certified reliability engineer and is a senior member of IEEE. More information on Adam and Apex Ridge Reliability can be found at [www.apexridge.com](http://www.apexridge.com)

### [Link to Presentation](#)

**Link to past presentations** <http://ewh.ieee.org/r1/boston/rl/presentations.html>

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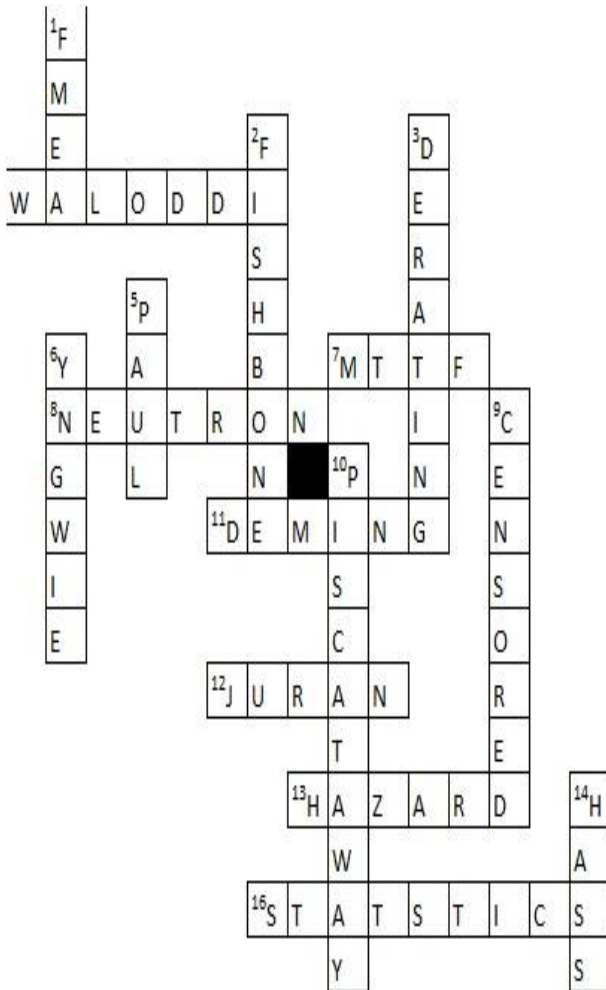
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**Solution for the Reliability Crossword Puzzle that appeared in the May newsletter of the IEEE Reliability Society**



**Across**

- 4 Swedish distribution developer first name
- 7 Often quoted in conveying the reliability of a system
- 8 Fundamental particle generated in the upper atmosphere which can upset SRAM cells on earth
- 11 Godfather of the American Quality movement W. Edward \_\_\_\_\_
- 12 Godfather of the American Quality movement Joseph M. \_\_\_\_\_
- 13 Another term for failure rate
- 16 A branch of mathematics widely used by reliability practitioners

**Down**

- 1 Performed with the objective of improving the design of a system
- 2 Diagram intended to assist in root cause determination
- 3 A method of altering the failure rate of a component based on stress levels relative to nominal
- 5 Pee Wee Herman actor first name
- 6 First name of Swedish guitar virtuoso
- 9 Type of data where exact times are not known
- 10 New Jersey town where headquarters of IEEE is located
- 14 Applied during production stage to prevent the shipment of defective items
- 15 Last name of pop musician from Canada

## **Chapter Participation and Outreach Efforts**

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### **I. Chapter Seeks Volunteers**



We are interested in having you help out as a volunteer contributing as much or as little as you would like. We have a good team of volunteers that help us keep things going so if you would like to join us, there is probably ample opportunity to choose how you would like to contribute. Email or talk to any of us at the next monthly presentation, or attend one of our Advisory Committee meetings.

For updates on upcoming events: <http://ewh.ieee.org/r1/boston/rl/events.html>.

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*Readers can contact chapter newsletter editor Ken Rispoli ([Kenneth P Rispoli@raytheon.com](mailto:Kenneth_P_Rispoli@raytheon.com)) with any comment/suggestion or if interested in contributing to our next issue. Thanks.*

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