

January 2011

Rock River Valley Section

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Event



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The Institute of Electrical and Electronic Engineers, Inc.

IEEE RRVS, RRVS IAS Chapter and Rock Valley College Meeting

SERVING IEEE MEMBERS OF NORTH CENTRAL ILLINOIS AND EXTREME SOUTH CENTRAL WISCONSIN

Reliability Challenges in the Aerospace Industry

WHEN Thursday, January 27, 2011

WHERE

Rock Valley College, Woodward Technology Center, Room 142. I-90 to Riverside Blvd., exit and go west to Mulford Rd. Go south to 2nd light, turn east into RVC. Follow road to left to last building on right.

AGENDA

6:00 PM Networking
6:30 PM Dinner
7:30 PM Presentation

PROGRAM

Reliability engineers involved in design and analysis of complex systems in commercial aerospace and manned space programs face tremendous challenges due to several reasons. The systems have become extremely complex with implementation of new and advanced technologies and high level of automation, control, fault protection, detection, identification and recovery. They require significant effort and high level skills from the reliability engineers. Customers have raised the reliability and safety requirements to extremely high

levels frequently expecting 2, even 3, fault tolerance systems. In this environment the reliability engineers need to approach system analysis systematically and use modern and advanced reliability, safety and statistical tools. This presentation will elaborate the engineering challenges and present the reliability engineering analysis process, as well as available tools.

SPEAKER

Vladimir Crk is a Hamilton Sundstrand Fellow and received his Ph.D. and MS degrees from the University of Arizona, Tucson, in the field of reliability engineering and engineering statistics. He received his BS degree in EE from the University of Zagreb, Croatia. He started his career in the USA in 1996, as a Honeywell Engineering Fellow working in the sensing technology field with applications in automotive, military, industrial and aerospace industries. He joined Hamilton Sundstrand, a United Technologies Company, in February of 2005, and has been involved



in reliability and safety analyses of power generation systems for major aircraft manufacturers such as Boeing and Airbus.

MEAL INFORMATION

Dinner will feature **grilled chicken breast** and **vegetable lasagna**. The costs are: member: \$5, non-member: \$10, student members: \$2, student non-members: \$5. Please make **dinner reservations online (preferred)** at <http://meetings.vtools.ieee.org/meeting/view/list/meeting/4969>

or by emailing Ginger at ginger.spinasantata@hs.utc.com by **Tuesday, January 25, at 5pm**. Please include the following: name, phone number, email address, IEEE member number, choice of entree. Unemployed members may call the Treasurer for special arrangements.

NOTE

The meeting is open to the general public. You need not be an IEEE member to attend. Guests are welcome. Please email Ginger at ginger.spinasantata@hs.utc.com for questions.