



Enterprise Chapter of Los Angeles Section

Mission: To Aid Small Aerospace Businesses and Consultants to Network

with Others and Present Capability to Clients

List Your Company at <http://www.aiaaenterprise.org> It is free!

Chapter Meeting: Tuesday August 19 at 6:00 pm

Location: AIAA Western Office

999 N. Sepulveda Blvd. Suite 440, El Segundo, CA

Use Visitor Parking No Charge for Parking - After 7 PM Exit

**Speaker: M. Richard Denison, Co-Vice Chairman Enterprise/Career
Enhancement AIAA Los Angeles Section**

"The X-17 Project – No Risk Management and Few Legal Restrictions"

The purpose of the X-17 flight experiments in 1956 was to determine if it was possible to design a heat shield that could survive the "heat barrier" of reentry. The full-scale X-17 employed three solid-fueled stages. The first stage of the X-17 was fired upward and the second and third stages were fired down toward the earth to simulate high speed reentry

Unlike many current projects we were not optimizing something that already worked, but we were trying to do something that had never been done before. We made lots of mistakes, but we were able to implement changes quickly. What we did in days it would probably take years to accomplish with all the restrictions of today.

Mr. Denison's major achievements include pioneering work in reentry phenomenology and advanced propulsion. At TRW he was Chief Scientist for flight experiments on an extensive full scale reentry measurements project. Other work included projects in coal combustion, and laser effects on composite materials. Earlier work included experiments and analysis for arc jet thrusters and crossed field channel accelerators, studies of separated flow phenomena, graphite ablation for reentry heat shields, analysis of unstable combustion in solid propellants, and turbulent flow on blunt nosed hypersonic vehicles.

Mr. Denison has been listed in American Men of Science and is a member of AIAA, TAU BETA PI, and SIGMA TAU. He has a BS in Mechanical Engineering from University of Pennsylvania and an MS in Engineering Science and Applied Physics from Harvard University.

Dinner and Networking

- 1. Presentation by Richard Denison,**
- 2. Discussion Led by: Richard Denison - Co-Chair and Guido Frassinelli - Co-Chair**

To attend RSVP by August 18

Contact:

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After August 15

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Attendance fee is \$10 including food