Paul Sorensen
Northrop Grumman Electronic Systems
600 Hicks Rd. M/S U3100
Rolling Meadows, IL 60008
Work: [redacted]

Paul Sorensen is a systems engineer specializing in system safety, laser safety, and human systems integration. His work emphasizes technical focus and a disciplined requirements-based approach to safety via thorough, traceable, defensible, and verifiable specifications. His work is also recognized through his support of several industry safety committees, where he participates in standards development, review, and approval. He provides a consistently objective and professional approach both to systems engineering work and to safety committee support.

Industry Recognition

- Mr. Sorensen has been selected as the recipient of the International System Safety Society's Engineer of the Year Award for 2012. Formal award ceremony in August 2012.
- Mr. Sorensen has accepted the responsibility of Secretary of the ANSI Z136.6 Standard Subcommittee (SSC) in February 2012.
- Mr. Sorensen has been selected as a recipient of a 2011 Technical Standards Board Outstanding Contribution Award in recognition of outstanding service in the technical committee activities of SAE International.

Professional Experience

Northrop Grumman Electronic Systems, 600 Hicks Rd., Rolling Meadows, IL

- 2004-Current: Senior Advisory Engineer – System Safety
  - Mr. Sorensen currently serves as an authority and consultant on scientific principles and broad technical areas of the systems engineering and system safety disciplines. He provides authoritative interface with internal and external customers and safety review boards. He provides technical leadership, direction, and mentoring to other engineers in the application of scientific principles, tools, and techniques in the fields of system safety and laser safety. He regularly advises other business areas on laser safety compliance.
- 1987-2004 Engineer (various titles and technical grades of increasing responsibility)
  - Mr. Sorensen developed and conducted system safety programs for a variety of high-visibility development activities, including laser and energetic programs. He provided flight test and user organization support for initial fielding of complex avionics equipment. At the Northrop Grumman Electronics Sector level, he received the

President's Leadership Award in 2000 for outstanding support during development and flight test to achieve successful completion of independent operational testing and evaluation (OT&E).

- 1986-1987: Technician

Education

M.S., Computer Science, Roosevelt University, Chicago, IL [redacted]
B.S., Physics, Illinois State University, Normal, IL [redacted])
Graduate Certificate, Human Systems Integration, Naval Postgraduate School, Monterey, CA [redacted]

Professional Certifications

- Certified Laser Safety Officer (CLSO) [redacted]
- Certified Safety Professional (CSP) [redacted]
- Certified Hazardous Materials Manager (CHMM) [redacted]

Standards Development

- ANSI Z136.6: Safe Use of Lasers Outdoors, SSC-6 Subcommittee, 2003-Current
  - The SSC-6 Subcommittee develops and updates the ANSI Z136.6 standard for the safe use of lasers outdoors.

- ANSI Z136.1: Safe Use of Lasers, SSC-1 Subcommittee, 2010-Current
  - The SSC-1 Subcommittee develops and updates the ANSI Z136.1 standard for the safe use of lasers.

- SAE G-10T: Laser Hazards Subcommittee, 2003-Current
  - The SAE G-10T develops industry standards, such as Aerospace Standards (AS) and Aerospace Recommended Practices (ARPs), related to outdoor laser use, particular those laser applications intended for use within the navigable airspace.

- TechAmerica G-48: System Safety, 2009-Current
  - The G48 Committee develops technical and program criteria, procedures, and methodology for the application of system safety engineering at all phases of the life cycle of a system or equipment.

Publications

Sorensen, P. (2009), *Atmospheric Scintillation Considerations for Outdoor Laser Safety Evaluation – A Statistical Approach for Estimating the Effect of Atmospheric Scintillation on Optical Gain*, (Conference Proceedings, International Laser Safety Conference 2009, Paper #102)