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Alson E. Hatheway

Mr. Hatheway received a Bachelor of Science in Mechanical Engineering from the University of California, Berkeley, in 1959. He is a registered professional engineer in the state of California. He worked as a design engineer (Boeing Aerospace and Ford Aerospace) and managed engineering organizations for Xerox, Hughes Aircraft and Gould before opening his own business, Alson E. Hatheway Inc., in 1979. During his industrial experience Mr. Hatheway concentrated in the design and development of new technical products, an interest that he has been able to refine and promote with his own Company. He is listed in *Who's Who in Science and Engineering* as well as *Who's Who in America* and *Who's Who in the World*. He has contributed as a part-time faculty member at the University of La Verne in the Optical Engineering curriculum. He has also teaches metrology and optomechanical engineering seminars for technical societies and industrial corporations.

Mr. Hatheway has been active in a number of technical societies:

Optical Society of Southern California: Fellow, Past-President, committees
Optical Society of America
Society of Photo-Optical Instrumentation Engineers: Fellow, Past-Governor, committees, workshops, tutorial instructor, conference and program chairmanships, Optomechanical Technical Group Chairman
American Society of Mechanical Engineers: Life Member, ANSI/ASME B46 Committee on Surface Texture (Vice-Chairman), tutorial instructor
Association of Old Crows: conferences
American Institute of Aeronautics and Astronautics: Senior Member, Section Past-Chairman, committees, conferences
California Society of Professional Engineers: Chapter Past-Treasurer
American Society of Precision Engineers: conferences

His work has been published in the journals and proceedings of several technical societies, agencies and some trade publishers:

American Society of Precision Engineers: 1994
Astronomical Society of the Pacific: 1999
Micro/Nano Newsletter: January 2004
American Institute of Aeronautics and Astronautics: 2000, 2001
MSC/NASTRAN User's Conference: 1982, 1983, 1985, 1986, 1989 and 1991
Society of Photo-Optical Instrumentation Engineers: 1984, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004 and 2005, 2007
Optics and Photonics News: 2007
Photonics Spectra: March 1998
OEMagazine: December 2003
Physics Letters A: 1989
American Society of Mechanical Engineers: 1988, 1991 and 2002
Institute of Environmental Sciences: 1982
National Electronic Packaging and Production Conference: 1968 and 1969

Mr. Hatheway has performed original work in the fields of calibration standards, radiometry, optical scanners, heat transfer and precision design and analysis. This work has resulted in patents for his employers, clients and himself. His most recent contributions have included quantifying the interactions between optical systems and their supporting structures using Optical Analog™ techniques, the Optomechanical Constraint Equations™, the development of very high accuracy actuator systems and presenting workshops and tutorials to promote the practice of optomechanical and precision engineering.