

Thomas M. Lemons, FIES, PE



Tom Lemons is a titan of the lighting industry; he enjoys an international reputation as an expert in the fields of Sports Lighting, Modeling, Spill Light Control and Optical Systems Design. Mr. Lemons is President of TLA-Lighting Consultants, Inc., which he founded in 1970; prior to TLA Tom was an Applications & Development Engineer at Sylvania Lighting Products where he worked to develop new products and to find new uses for existing products. It was at Sylvania that he pioneered the application of tungsten halogen light sources in the Theater, Television, and Film industries. In 1956 Mr. Lemons received his

Bachelor of Science from Purdue University in Electrical Engineering with emphasis on Illumination and Optics. Always the entrepreneur, in high school and college, he was a partner in a firm which rented and sold theatrical lighting and sound systems.

He is active in many societies, including the IESNA—Illuminating Engineering Society of North America, the CIE—International Commission on Illumination, the IDA - International Dark-Sky Association and USITT—United States Institute for Theatre Technology. Tom is an honored Fellow of both the IESNA and USITT and he served as IESNA Regional VP and National VP of Administration & Operation. Lemons is a Registered Professional Engineer in the Commonwealth of Massachusetts.

Mr. Lemons has chaired many IESNA and CIE technical committees including the Light Control and Luminaire Design; Sports Lighting; Institutions Lighting; Theatre, TV and Film; Lighting & Library Lighting Committees. He has helped prepare energy standards for new buildings (ASHRAE 90-75) as well as one for existing places of public assembly (ASHRAE/IES 100.6-1981) and has helped write a manual of accepted practice for ASHRAE 90-75. In addition to teaching various illumination subjects at the college and post-graduate level, Tom has presented and published over 70 technical papers, and created the curriculum & conducted a series of professional seminars on reflector design and light sources. Mr. Lemons has been awarded 17 USA patents and several foreign patents in the field of optics and illumination.

In 1970, Mr. Lemons was designated to represent the USA on the CIE Sports Lighting Committee. Over the next 18 years he helped draft nine sports lighting reports. In 1990, after the reorganization of the CIE into the present Division structure, Mr. Lemons was designated as the USA Member of Division 5 and he now serves as Secretary of this Division. He also chairs a committee, TC 5-20, which is preparing a Guide for Sports Lighting and he serves on TC 5-22, Beam Patterns for Exterior Floodlighting Luminaires and TC 5-23, Guidelines for Use of Alternate Illuminance Metrics in Outdoor Applications. Since 1965 he has served on the USA IESNA Sports Lighting Committee and has helped prepare three versions of RP-6, Recommended Practice for Sports and Recreational Area Lighting.

A short list of project credits includes Boston's Fenway Park; New York's Yankee Stadium and Philadelphia's Spectrum Arena. He has provided office lighting designs for the Haworth Center, Holland, Michigan; PG&E Diablo Canyon Power Plant in California and Clark Equipment Company, South Bend, Indiana. He has provided exhibit lighting designs for several Haworth Showrooms; the MSPCA Macomber Farm, Framingham, Massachusetts and the Museum of Fine Arts, Portland, Maine. His optical design clients include Lam Lighting; The 3M Company; Haworth, Inc.; Macbeth Division, Kollmorgan Corporation; Black and Decker; Altman Stage Lighting Company and many others.

In 1979, until he sold the company in 2001, Tom co-founded and served as President of ARC Sales, Inc. a manufacturer of a highly efficient luminaires for the gaming and architectural lighting industries.