

## Career Summary

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Dr. Seward retired in 2007 as Professor of Glass Science at the Kazuo Inamori School of Engineering at Alfred University, Alfred, N.Y. From July 1997 through April 2005, he served as Director of the NSF Industry-University Center for Glass Research at Alfred.

Prior to joining the Alfred faculty, Dr. Seward held research, development, engineering and management positions at Corning Incorporated, Corning, NY. He joined Corning in 1967, was manager of Glass Research from 1984 to 1990, and retired from Corning in 1997 as a Senior Research Associate.

Dr. Seward's fundamental research areas at Corning included phase-separated, photochromic, photosensitive and polarizing glasses, and studies to better understand laser damage, compaction and induced optical absorption in fused silica, with the objective of inventing materials and processes for 193-nm microlithography optics.

Dr. Seward's process and product development experience included glass, glass-ceramic and optical materials. He holds key patents in the areas of sheet photochromic glass and polarizing glass. Polarcor™ brand near infrared polarizing glass filters was recognized with an IR 100 award in 1986.

Dr. Seward holds twenty-eight U.S. Patents, has more than forty technical publications and has authored or co-authored several book chapters.

Dr. Seward holds a BA degree from Wesleyan University (Middletown, Connecticut) and MS and Ph.D. degrees from Harvard University. He is a fellow of the American Ceramic Society and a past chairman of the Glass and Optical Materials Division. He is a fellow of the Society of Glass Technology and past chairman of the North American Section. He is also a member of the Optical Society of America and the Materials Research Society.

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