

Imaging With Electrons

Richard Hailstone

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Chester F. Carlson Center for Imaging Science

Rochester Institute of Technology

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Auditorium of the Center for Imaging Science

Speaker Biography:

Richard Hailstone received an MS in Physical Chemistry from Indiana University in 1972 and shortly thereafter joined the Research Laboratories of the Eastman Kodak Company. Through almost all of his 18 years with Kodak his research focus was on fundamental research in silver halide materials (those materials used for conventional photographic products). Most of the research was directed toward defining a mechanism of latent-image formation and how it is affected by chemical and spectral sensitization. An important part of this work involved developing a physics-based computer simulation tool to compute the sensitometric properties of photographic materials. In 1990 he left Kodak and joined the faculty at the Center for Imaging Science at the Rochester Institute of Technology where his research focus continued to be in silver halide materials. In 2006 his research focus shifted towards the nanomaterials area. Specifically, Rich is interested in nanomaterial synthesis and the use of these nanomaterials in next generation imaging devices, such as hybrid LEDs as image displays. He is Co-Director of the Nanoinmaging Laboratory in CIS, the Microscopy Facility of which houses two transmission electron microscopes, a scanning electron microscope, and a scanning probe microscope. He is the recipient of the Lieven-Gevaert award from IS&T for outstanding achievement in silver halide photography and is also a fellow of IS&T.