

Colloquium



Dr. J. P. Lehan

Universities Space Research Association & NASA Goddard Space Flight Center

“Electrochromic Eyewear”

Abstract:

Several companies have attempted since about 1990 to commercialize variable tint eyewear based on electrochromic technology. We will review and compare the various approaches from a technical perspective. We will then concentrate on the most recent attempt made by PPG Industries, Inc. with its “Intelligent Optics” product. We will also discuss the optical and electro-chemical behavior of electrochromic materials and PPG’s attempt to push the optical performance of these devices to their limit. Finally, both the standard and optimized product will be demonstrated along with some perspective on the commercialization of electrochromic technology.

Dr Lehan is a 1985 graduate (B.S. Physics) of Virginia Tech. He was president of the VT SPS chapter for 1984-85 and did undergraduate research with Dr. Jerome Long. Following Virginia Tech he earned his Ph.D. from the Optical Sciences Center of the University of Arizona. He was subsequently employed in California by Optical Coating Laboratory and by Airco before moving East to Pittsburgh’s PPG Industries. His colloquium topic is derived from his work at PPG. He recently joined Universities Space Research Association at Maryland’s Goddard Space Flight Center.



Friday, January 24

2:30 pm - 210 Robeson

2:15 pm - Refreshments

