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**EDUCATION**

- 1981            Ph.D. in Physics  
                  University of Pennsylvania, Philadelphia, PA
- 1975            B.S. in Physics, *summa cum laude*  
                  Ohio State University, Columbus, OH

**EXPERIENCE**

- 2018-            Executive Chair of Board of Directors and Chief Innovation Officer, Folio Photonics, Inc.
- 2012-2017      Founder, Manager, President Folio Photonics LLC
- 2011-            Founding Director, Materials for Opto/Electronic Research and Education (MORE) Center
- 2011-2016      Associate Director, Center for Layered Polymer Systems (CLiPS)
- 2008-            Ambrose Swasey Professor of Physics
- 2002            Visiting Scientist, Liquid Crystal Institute, Kent State University
- 1998-2013      Founding Director, Engineering Physics Program  
                  Case Western Reserve University
- 1995-            Professor, Department of Physics  
                  Case Western Reserve University
- 1995-            Professor, Department of Macromolecular Science  
                  Case Western Reserve University
- 1993-2005      Associate Chair, Department of Physics  
                  Case Western Reserve University

- 1990-1993 Warren E. Rupp Associate Professor of Physics  
Case Western Reserve University, Tenured 1993
- 1989-1990 Distinguished Member of Technical Staff  
AT&T Bell Laboratories
- 1982-1989 Member of Technical Staff  
AT&T Bell Laboratories
- 1981-1982 Postdoctoral Research Investigator  
University of Pennsylvania, Department of Physics
- 1975-1976 Teaching Fellow University of Pennsylvania, Department of Physics

### **HONORS, AWARDS AND AFFILIATIONS**

- Fellow, Optical Society of America
- Fellow, American Physical Society
- Distinguished Member of Technical Staff, AT&T Bell Laboratories, 1989-90
- Exceptional Achievement Award, AT&T Bell Laboratories, 1986
- University Fellow, University of Pennsylvania
- Alva W. Smith Scholarship
- Member: International Liquid Crystal Society, SPIE

### **PROFESSIONAL ACTIVITIES**

- Advisory Board, Great Lake Institute for Energy Innovation, 2009-2013
- Research Platform Leader, *Electronic and Optical Systems*, Center for Layered Polymer Systems (2006-)
- Executive Committee, Center for Layered Polymer Systems (2006-)
- Research Project Co-Director, *Optical Switching and Storage*, Advanced Liquid Crystalline Optical Materials Science and Technology Center (1992-2001)
- Founding Member of the Advisory Committee for Joint Activities of the Optical Society of America and The American Chemical Society
- Topical Editor in Nonlinear Optics: *Journal of the Optical Society of America B*
- Editorial Board: *Nonlinear Optics*
- Editorial Board: *Molecular Engineering Review*
- Editorial Board: *Photonic Science News*
- Technical Advisory Board, Nanofilm, LLC
- Advisory Board, Nano-Network

### **PATENTS**

- “Nonlinear Optical Materials and Devices,” U.S. Patent #4,859,876
- “Optical Probing Method and Apparatus,” U.S. Patent #5,126,660
- “Co-Extruded Multilayer Polymer Films for All-Polymer Lasers,

US 7,936,802 B2 May 3, 2011  
“Co-Extruded Multilayer Polymer Films for All-Polymer Lasers,”  
US 8,144,744 B2 March 27, 2012  
“Optical Information Storage Medium”  
United States: US 9,275,671 B2  
EU: EP 2 718 930 B1  
China: CN 103765513 B  
Japan: JP 60/87348 (B2)  
Australia: AU 2012267419  
Pending: Canada CA 2,838,842 (A1)  
Pending: Korea KR 10-2013-7034058  
Allowed United States Continuation: US 20160336035