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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

Faculty Distinguished Research Award, Case Western Reserve University, 2020

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

United States: US 10,229,709 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)

Korea KR 10-2013-7034058, 10-2018-0117720