

Leo J. Schowalter, PhD
CTO and founder, Crystal IS, Inc.
Green Island, NY 12183 (USA)

Visiting Professor, Rensselaer Polytechnic Institute
Troy, NY 12180 (USA)

Education

1975 B.S. (summa cum laude) in Physics and Mathematics, University of Idaho
1976 M.S. in Physics, University of Illinois: Urbana-Champaign
1981 Ph.D. in Physics, University of Illinois: Urbana-Champaign (advisor M.B. Salamon)

Employment

10/80-12/86 Staff physicist, GE Research and Development, Schenectady, NY
9/86-1/93 Associate Professor of Physics, Rensselaer Polytechnic Institute
1/93-6/06 Professor of Physics, Rensselaer Polytechnic Institute
7/94-6/97 Associate Director of the Center for Integrated Electronics and Electronics Manufacturing, Rensselaer Polytechnic Institute
7/97-6/00 Chair of Physics, Applied Physics and Astronomy Department, Rensselaer Polytechnic Institute
3/97-2/06 President and CEO of Crystal IS, Inc.
2/06-present Vice president and Chief Technology Officer, Crystal IS, Inc.
6/06-12/08 Research Professor of Physics, Rensselaer Polytechnic Institute
12/08-present Visiting Professor of Physics, Rensselaer Polytechnic Institute

Experience (Partial List)

Chair of an APS March Meeting Focused Session on "The Role of Stress in Epitaxial Growth," (San Jose, March, 1995).
Guest editor of MRS Bulletin issue on Heteroepitaxy (April, 1996)
Associate editor of J. Vacuum Science and Technology (1995-1998)
Executive Committee of AVS Electronic Materials and Processing Division (1996-1999)
Meeting Chair of the 1998 Spring MRS Meeting (San Francisco, April, 1998)
Co-Chair of the 1999 Gordon Research Conference on Thin Films and Crystal Growth Mechanisms
Co-instructor on Nitride Semiconductor tutorials at the 1999 and 2000 Fall MRS Meetings and at the Compound Semiconductor Outlook 2000 and 2001 Meetings.
Co-chair of MRS Symposium on Materials for Photonic Applications (San Francisco, April, 2002)
Co-chair of Compound Semiconductor Outlook 2003 (San Diego, Feb., 2003)
Winner of Tech Valley Business Plan competition (\$100,000) for Crystal IS (June, 2003)
Program Committee Int'l Conference on Nitride Semiconductors (Pittsburg, July 2004)
Program Committee Int'l Conference on Nitride Semiconductors (Bremen, Aug. 2005)
Co-chair of Bulk Nitride Workshop at IWNS (Kyoto, Oct. 2006)
Program Committee International Nitride Semiconductor Workshop-2008 (Montreux, Switzerland, October 2008).
Program Sub-committee member CLEO 2009 and 2010
Co-organizer Fall 09 MRS Symposium "III-Nitride Materials for Sensing, Energy Conversion, and Controlled Light-Matter Interactions"

Twelve patents granted and 10 patents pending.
More than 160 papers published, More than 65 invited talks.