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### **Education**

Ph.D. 1988      Electrical Engineering, University of Southern California, Los Angeles, California  
MS 1986        Materials Science, University of Southern California, Los Angeles, California (Honors)  
BS 1984        Materials and Metallurgical Engineering, University of Arizona, Tucson, Arizona  
(Highest Distinction) University Valedictorian, Spring 1984.

### **Area of Specialization**

Steven DenBaars, Professor of Materials and Electrical and Computer Engineering, is the Co-Director of the Solid State Lighting and Energy Center. His research areas include MOCVD growth of wide-bandgap semiconductors (AlInGaN- and ZnO-based) and their application to blue LEDs and laser diodes as well as high power electronic devices.

### **Academic and Professional Appointments**

2007-Present    Executive Director, Solid State Lighting and Energy Center  
2002-2007      Executive Director, Solid State Lighting and Display Center  
1998-Present    Professor, University of California, Santa Barbara, Materials Department  
1999-1998      Associate Professor, University of California, Santa Barbara, Materials Department  
1991-1994      Assistant Professor, University of California, Santa Barbara, Materials Department  
1988-1991      Research and Development Engineer, Hewlett-Packard Optoelectrics, San Jose, Ca  
1984-1988      Research Assistant, University of Southern California Compound Semiconductor  
Laboratory

### **Professional Activities**

2013            Chairman & Co-Founder, Soraa Laser Diode Inc.  
2008            Visiting Honorary Professor, Hong Kong University of Science and Technology  
2007            Co-Founder, Soraa Inc.  
2004            Endowed Chair, Mitsubishi Chemical Chair in Solid State Lighting and Display  
2004            Chair, ICMOVPE XII Conference, Maui, Hawaii  
2003            Senior Member, IEEE  
2003-2007      Visiting Honorary Professor, Wuhan University  
2000-Present    Scientific Advisory Board, CREE Inc.  
1998-Present    Editorial Board, Compound Semiconductor Magazine  
1997-Present    Editor, Materials Research Society Conference Proceedings  
1995-Present    Editorial Board, MRS Internet Journal of Nitride Research  
1997            Visiting Associate Professor, Tokushima University  
1996            Visiting Associate Professor, Nagoya University

### **Awards and Honors**

2014            National Academy of Inventors (NAI) Fellow  
2012            National Academy of Engineering (NAE) Member

2010	Aron Kressel Award – IEEE Photonics Society
2007	Elected IEEE Fellow
2007	Viterbi Award, USC Distinguished Alumni Award, University of Southern California
1998	Young Scientist Award, Intl., Symposium on Compound Semiconductors
1994	NSF Presidential Young Investigator Award
1987	Best Paper Award, EMC
1984	ONR Graduate Fellowship Award

### **Special Appointments**

2007	International Advisory Committee, ICMOVPE Conference, Mainz, France
2007	Co-Chair, 7 <sup>th</sup> International Conference on Nitride Semiconductors, Las Vegas, NV
2010	International Advisory Committee, 8 <sup>th</sup> International Conference on Nitride Semiconductors
2010	ICMOVPE Local Arrangements Chair
2010	International Advisory Committee, 8 <sup>th</sup> Annual International Committee on Semiconductor Light Emitting Devices
2010	International Advisory Committee, International Symposium of Nitride Semiconductors, France
2011	Member, National Research Council Committee on Assessment of Solid State Lighting
2011	Member, IEEE Aaron Kressel Award Committee
2011	Member, IEEE William Streifer Scientific Achievement Award Committee

### **Other Professional Contributions:**

1997-2010	Technical Consultant, Foley & Lardner
2003-Present	Scientific Advisor, CREE Lighting, Inc.
2003-2010	Technical Consultant, Welsh & Katz
2005	Vice Chair, 7 <sup>th</sup> International Conference on Nitride Semiconductors (ICNS-7)
2005	Chair, International Conference on Solid-State Lighting
2006	Judge, 1 <sup>st</sup> Annual Solid-State Lighting Design Competition
2006-2009	Visiting Professor, Wuhan University
2007	Co-Founder, Kaai Inc.
2007	Co-Founder, Soraa Inc.
2007-Present	Consultant Seoul Semiconductor
2008-Present	Visiting Professor, Hong Kong University of Science and Technology
2010	Expert Witness, Cree Inc. Trial
2010-Present	Department of Energy Panel on Solid-State Lighting

### **Publications & Patents**

Over 911 peer reviewed publications, and 158 U.S. Patents, 69,245 citations, h-index 129.  
List available on request.