

## **Wayne A. Anderson, Professor, Tenured**

### **Education**

1961 B.S.E.E., Electrical Engineering (semiconductors) University at Buffalo.  
1965 M.S.E.E., Electrical Engineering (semiconductors) University at Buffalo.  
1970 Ph.D., Electrical Engineering (semiconductors) University at Buffalo.

### **Employment**

1978-1981 Associate Professor, SUNY at Buffalo.  
1981 Professor, SUNY at Buffalo.  
1983-1989, 1995-1998 Associate Chairman, ECE.  
1989-1995 Chairman, ECE.  
1985-1997 Director, Center for Electronic and Electro-optic Materials.  
1961-1966 Research Engineer, Great Lakes Carbon Corp.  
1966-1970 Instructor, SUNY at Buffalo.  
1970-1976 Assistant Professor, Rutgers University.  
1976-1978 Associate Professor, Rutgers University.

### **Consulting (list agencies and dates, and briefly describe each project)**

1970-1974 Exxon Enterprises  
1973-1976 Amerace Esna Corp.  
1976 Zaromb Research Corp.  
1976 CDC Research Inc.  
1975 Plasma Physics Corp.  
1980-1984 Southeastern Center for Electrical Engineering Education  
1984 Teledyne Taber  
1978-1990 Ohmtek  
1986-1991 Vivadent  
1991 Micropen

### **Patents**

Six

### **State(S) in which registered**

None

### **Select publications from past five years**

- [1] E. Guliants and W.A. Anderson, "Characterization of Poly-Si Thin Films Deposited by Magnetron Sputtering onto Ni Prelayers," J. Appl. Phys., 87, 3532-3536, 1 April 2000.
- [2] Y.J. Song and W.A. Anderson, "Amorphous Silicon Heterojunction Solar Cells with a Microcrystalline Silicon Buffer Layer," Solar Energy Materials and Solar Cells, 64, 241-249, 2000.
- [3] Y.J. Song, M.R. Park, E. Guliants, W.A. Anderson, "Influence of Defects and Band Offsets on Carrier Transport Mechanisms in Amorphous Silicon/Crystalline Silicon Heterojunction Solar Cells," Solar Energy Materials and Solar Cells, 64, 225-240, 2000.
- [4] E.A. Guliants and W.A. Anderson, L.P. Guo, V.V. Guliants, "Transmission Electron Microscopy Study of Ni Silicides Formed During Metal Induced Silicon Growth," Thin Solid Films, 385, 74-80, 2001.
- [5] E.A. Guliants and W.A. Anderson, "A Novel Method of Structure Control in Si Thin Film Technology," J. Electrochemical Society, 148, G156, March 2001.

### **Scientific and professional societies of which a member**

- Tau Beta Pi
- Pi Lambda Tau

- Sigma Xi
- IEEE (Senior Member) - (Board of Directors) - Buffalo Section – (1979 to 1980 and 1981 to 1984)
- American Physical Society
- International Solar Energy Society (Member, Board of Directors, Physics Division) (1979 - 1981)
- Who's Who in Technology Today
- International Who's Who in Engineering
- Who's Who in the East
- Who's Who in American Education
- Who's Who in America
- Who's Who in Science and Engineering
- American Men & Women of Science

**Other scholarly activities: Grants, sabbaticals, software development, etc.**

1982 Chairman of Steering Committee of International Students Inc.  
 1980 – 1984 Established a Physics Program at West Seneca Christian School  
 1984 – 1987 Member - Board of Deacons at First Baptist Church of West Seneca  
 1988 – 1990 IEEE Program Evaluator for the Educational Activities Board  
 1987 – 1994 Engineering Advisory Committee for Cedarville College

**Institutional and professional service in the last five years**

Director, Center for Electronic and Electro-Optic Materials (1985-1997)  
 Associate Director, Center for Advanced Photonic and Electronic Materials (1997 – present)  
 Faculty Senate (2000-2001)

**Professional development activities in the last five years**

None