

WAYNE A. BUCHANAN

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EDUCATION

B.A. Biology, University of Delaware 1977

Additional post-graduate courses in computer science, mathematics and sputter deposition

EXPERIENCE

1983-present Research Associate I, Institute of Energy Conversion, University of Delaware, Newark, Delaware 19716

Responsible for the deposition and optimization of a-Si and CdTe solar cells. Designed, constructed, operated, and supervised the construction and operation of complex semiconductor deposition systems. Direct and train technicians, post-docs and undergraduate students in the operation of these systems. Developed processes for the deposition of high quality a-Si, CdTe and CdS films. Established safety standards for the installation and handling of highly toxic and/or pyrophoric gases associated with a-Si deposition systems. Have a working knowledge of most equipment used at IEC.

1994 – 2004 Served as chair of the IEC Safety Committee

1978 – 1983 Senior Research Technician, Institute of Energy Conversion, University of Delaware, Newark, DE 19716