

## Arnold J. Steinman

Static Control Consultant

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### Capabilities

**Recognized authority** in the fields of ionization and static charge control for over 25 years.

**Consulting services** in static charge control and air ionizer applications. Experienced in yield improvement and problem solving in semiconductors, disk drive, flat panel display and other industries. Static control program development and evaluation of existing programs for compliance with industry requirements. Auditing of static control program operations. Design of experiments to determine the effect of ionization systems on equipment and facilities. Familiarity with industry standards requirements and technical publications. Published technical author.

### Certifications

**ESD Program Manager** (certified by the ESD Association)

**ESD Engineer** (certified by iNARTE)

### Employment History

2006 - 2009

#### **MKS, Ion Systems - Alameda, CA**

**Chief Applied Technologist** – Responsible for technical marketing to the company's target industries: semiconductor, disk drive, and flat panel displays. Conducted all standards-related activities and assisted management, sales, marketing, and engineering in all aspects of the company business.

1983 – 2006

#### **Ion Systems, Inc. - Berkeley, CA**

**Chief Technology Officer** – Also held positions as a *Consultant, Engineer, and Director of Engineering* since 1983. Engineered its ionization products for uses in high-tech industries and provided technical marketing to enable expansion to new areas. Initiated the company presence in the disk drive and flat panel display industries. Initiated and participated in the company static control consulting activities. Active in all aspects of engineering, sales, and marketing. Participated in standards organizations, wrote industry standards, published technical articles, and presented at technical symposia.

1972 – 1983

#### **Electronics Workshop - Berkeley, CA**

**Entrepreneur/Electronics Design Consultant** – Owner/Manager of the Design/Consulting firm. Designed and built products for clients including the University of California, Staefa Controls, and Ion Systems (from 1980-1983). Experienced with analog circuit design, microprocessor-based controls, and shipboard electronics. Set up test and production facilities.

1966 - 1971

#### **Lawrence Livermore/Berkeley National Laboratory - Livermore and Berkeley, CA**

**Engineer** - Heavy Ion Linear Accelerator (power system modifications for computer-based monitoring and fault detection/correction). Biomedical Electronics Group (systems to collect data from biological transducers). Counting Systems Group (instruments and systems for data collection in nuclear chemistry experiments).

### Education

**Polytechnic Institute of Brooklyn, Brooklyn NY (now New York Polytechnic)**

Bachelor of Science in Electrical Engineering - Unified Honors Program

Master of Science in Electrical Engineering - Unified Honors Program

### Professional Attributes

**Published Author** (over 100 articles in technical meeting proceedings and industry publications)

**Primary author** of industry standards for ionization, cleanroom ESD control requirements, and static control recommendations in semiconductor manufacturing

**4 U. S. Patents**

**Member** of the ESD Association (workgroups and Board of Directors), SEMI Standards (Leader – ESD Task Force), IEST, Electrostatic Society of America, participant on ITRS Factory Integration group and IDEMA ESD standards.

### References

Excellent personal and professional references available upon request.