RSSI

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ELI A. PORT

Citizenship: USA (valid passport) Clearance: Public Trust Level 5

CURRICULUM VITAE

Employment:

1976- RSSI, Morton Grove, Illinois

Founder and President of a health physics, industrial hygiene and environmental consulting firm specializing in regulatory affairs and government liaison, developing and applying modern, cost-effective management techniques, and radiological analysis. Provides innovative solutions to licensing requirements and program design and intervention in compliance and enforcement action. Manage and direct institutional radiation safety and industrial hygiene programs including leading research institutes, major corporations, universities, medical centers and government agencies. Develop QC/QA Plans. Develop laser safety programs.

Member, Technical Advisory Committee to the Illinois Department of Nuclear Safety (IDNS) Low Level Radioactive Waste Management Program. Member, City of Chicago Hazardous Materials Consultants Committee. Developed combined Radiation Safety Program for licensed activities on a dual use US NRC licensed/US DOE contracted site using depleted uranium (DU) for penetrator cores and enriched uranium for breeder blankets. Evaluated safety of body scanner backscatter x-ray systems for US Customs and Border Protection. Health physics supervisor for decontamination of 27-acre site contaminated with source material. Prepared application for first authorization to

distribute chemical warfare agent detectors to persons exempt from license. Obtained first authorization from NRC to distribute exempt items from offshore locations. Developed licensing and training strategies for geographically distributed activities that were subsequently incorporated into an NRC Regulatory Guide.

Characterized a 60-acre mixed waste site contaminated with magnesium-thorium alloy residuals and hazardous material resulting from manufacturing processes. This characterization led to material segregation that reduced costs by more than two million dollars. Provided technical support for government interventions on major radioactive waste National Priority List sites. Developed alternative compliance program accepted by US EPA to demonstrate national compliance with 40 CFR 61, Subpart I. Determined dose to members of the public from tritium releases at nuclear stations. Designed shielding for diagnostic and therapeutic clinical facilities and 10 MeV electron beam commercial accelerator. Performed radiological safety evaluations for world's largest production cyclotron. Designed radiation safety program and specified safety systems for a complex of multiple accelerators delivering doses in excess of a megarad per second. Designed and assembled nuclear utility and secondary laboratory calibration facilities.

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1997-2002 Illinois Institute of Technology, Chicago, Illinois
Research Associate Professor
Co-Direct Master of Health Physics Program combining traditional technical content with courses in law, management and communication. Designed advanced degree program for professionals in government, industry, and universities with courses available via the internet. Students achieved pass rates on ABHP certification exams that significantly exceeded National rates.

2001- 2006 Northwestern University, Evanston, Illinois
Adjunct Professor in Environmental Engineering

1996 Team Leader CPD 243, Compliance With Radiation Regulations

1989-2001 Adjunct Assistant Professor in Environmental Engineering

1983-1996 Instructor in CPD 240, Radiation Safety
Lectures on detection and measurement, licensing and regulation of radiation hazards.

1976-1977 Lecturer in 720-C65 Series, Radiological Health

1973-1976 Director, Center for Radiation Safety
Coordinated a multi-institutional program for two campuses and six affiliated clinical and research hospitals serving 1,000 occupationally exposed employees working with 200 radioisotope labs, four accelerators, a reactor and 150 machine sources of radiation. Responsible for legal and administrative aspects of the program under broad research and medical, special nuclear material, source material, and cobalt teletherapy licenses. Started a comprehensive dosimetry program with a 50 percent cost reduction. Developed a computerized inventory control. Designed and implemented a radioactive waste handling system to effectively eliminate personnel injury and contamination. Started a round-the-clock radiological emergency response program. Instructed M.S. and Ph.D. students in Radiological Health Physics.

1972-1973 St. Francis Hospital, Evanston, Illinois
Medical Physicist and Radiation Safety Officer
Advised the hospital administration on all safety and legal considerations with respect to ionizing and non-ionizing radiation. Provided health physics services for diagnostic X-ray, radiation therapy and nuclear medicine departments, including surveying, environmental monitoring, personnel monitoring and licensing. Calibrated diagnostic and therapeutic X-ray and teletherapy equipment. Planned treatments and performed dosimetry for external, intracavitary, interstitial and systemic radiation therapy. Designed beam blocking system for use during large-field therapy and developed a system for the use of equipment in large-field therapy. Taught radiology residents and X-ray technology students. Advised Safety Committee and hospital administration on the federal Occupational Safety and Health Act.

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1969-1972 Packard Instrument Co., Downers Grove, Illinois
Radiation, Health and Safety Officer
Responsible for all administrative and operational aspects of health physics program. Started company's OSHA compliance program. Designed and specified safety standards for Packard products used in hospitals and laboratories in a program to minimize product liability exposure. Taught fundamental and advanced courses in handling and use of radioactive materials. Conducted seminars for airlines and fire departments on transportation and handling of hazardous materials and emergency procedures.

1966 CERN, Geneva, Switzerland
Visiting Scientist
Evaluated health physics instrumentation for field surveys at 28 GeV Proton Synchrotron. Determined exposures and dose equivalents from data generated by instruments measuring conventional and exotic particle radiation.

1963-1965 Alpha R & D, Dixmoor, Illinois
Project Director
BuWeps program in interfacial phenomena of composite glass-resin systems using THO as tracer. Radiation Safety Officer responsible for curie quantities of H-3.

Certification: American Board of Health Physics
American Board of Industrial Hygiene

Registration: Professional Engineer

Education: M.S.: Radiological Health Physics, Northwestern University, l968
Thesis Topic - Chemical Radioprotective Properties of Cyclic Choline Xanthate

B.S.: Physics, Roosevelt University, l963

Professional associations: Member of the American Health Physics Society
Member of the American Industrial Hygiene Society
President of the Midwest Chapter of the Health Physics Society, 2005