



Bryce L. Rich

Education:

B.S. Physics/Math – Idaho State University (1949-53)
AEC Health Physics Fellowship (M.S. Equivalent) – Vanderbilt Univ. /ORNL (1954-55)

Professional Background:

General - Bryce L. Rich is a well known professional Health Physicist with an extensive (57 years) career in a variety of nuclear facilities, projects, and applications. His entire career has been as a professional Health Physicist in the areas of: 1) applied radiation protection, 2) radiation safety research and development, 3) hazards analyses and modeling, 3) development of radiological safety programs, standards, regulations, and technical guides, 4) consultation in all areas of radiological safety, 5) emergency preparation and response, 6) operational readiness reviews, 7) radiation dose reconstruction, and 8) radiation safety program review and evaluation.

Employment and Experience-

- 1995-Present** Radiological Safety Consultant, Shelley, Idaho
Consultant in Radiation Safety to Government and Contractor programs –through M. H. Chew & Associates, Inc. and Qal-Tek Assoc., Idaho Falls, Idaho as a Technical Consultant to a Radiological Safety Services company.
- 1992-1995** EG&G Corp. and Lockheed Martin Idaho Technologies, INEEL
Radiological Safety Director for DOE support programs at INEEL, Mound, Rocky Flats, and the NTS. Principal Scientist for Radiation Safety.
- 1980-1992** EG&G Idaho, INEEL
Manager and Technical Director for radiological safety support, including R & D of instruments and applied technology. Worked with DOE, NRC, IAEA, OECD, NCRP, ASTM, and ANSI.
- 1973-1980** Allied Chemical Corp., INEEL
Radiation Safety Director for programs at the Idaho Chemical Processing Plant
- 1963-1973** Lawrence Livermore Laboratory, Nevada Test Site and Livermore, CA
Directed safety programs for weapons testing at the NTS and other nuclear weapons test sites and the applied safety and support programs at the Livermore facilities.



1953-1963 Phillips Petroleum Co., INEEL
 Radiation Safety Engineer and Manager of radiation safety programs at the ICPP, high flux test reactors (ETR), Waste Mgmt., Uranium Mining & Milling, & Others. Year of leave of absence for AEC Health Physics Fellowship in 1954-55.

Conduct of radiation protection/safety activities in the programs above provided an experience base which produced a fundamental knowledge of the unique technical issues associated with the materials and processes of each program and the analytical and control techniques necessary. The general time periods associated with the programs and applications indicated below provide an index of the experience depth. Contributions to the advancement in radiation protection technology were made in each of these areas through program and technique development, applied research and development, and technical analyses and evaluations.

| <u>FACILITY/PROGRAM/APPLICATION</u> | <u>YEARS</u> |
|---|--------------|
| • Chemical Processing of Spent Enriched Fuel (INEEL) | 12 |
| • Hot Cells (INEEL, NTS, LLNL) | 20 |
| • High Level Waste Management (INEEL) | 12 |
| • Low Level Waste Management (INEEL, LLNL, WIPP, others) | 15 |
| • Analytical Radiological Labs. (INEEL, LLNL, others) | 20 |
| • Spent Fuel Storage (INEEL, NTS) | 14 |
| • Decontamination/Decommissioning (INEEL, LLNL, ROCKY, MOUND) | 10 |
| • High Flux Test Reactors (INEEL, LLNL) | 10 |
| • Nuclear Weapons Testing (LLNL - NTS and other sites) | 10 |
| • Accelerators (LLNL) | 7 |
| • Pu/Transuranics - Processing/Handling, Analyses and Control (LLNL,RF) | 15 |
| • Tritium Processing and Control (LLNL, MOUND) | 10 |
| • Uranium - Mining/Milling/Processing and Control (INEEL,RF,LLNL) | 10 |
| • Research and Development (INEEL, LLNL) | 12 |
| • NRC - Site Analyses (LLNL) | 5 |
| • Commercial Power Reactor Programs (INEEL, LLNL, NRC contracts) | 8 |
| • Radiation Safety Program Development/Evaluation, Control Technology, Instrumentation Design/Development/Calib, Specific Issue Investigation | 65 |

Professional Activities:

American Academy of Health Physics: Pres. Pro Tem (1986)

American Board of Health Physics: Panel of Examiners (member '65-'69, Chair '69-'73), Board (member '74, sec. '74-'75, Chair '76-'78)

National Registry of Radiation Protection Technologists: Formation Board Member and HPS Director



Health Physics Society: Charter Member (1955), President (1983-84), Awards Comm. Chair ('85-'86), Pres. Emeritus Comm. Chair ('89-'90), Chapter President (Eastern Idaho, '60, Northern Calif., '72)

Standards Organizations: HPS Standards Comm. Chair ('78-'82), ASTM Division Leader, NCRP Committees (SC 50, 71, 41), OECD, IAEA (three work groups, '74, '76, '88)

Honors: Fellow (1986), EICHP Health Physicist of the Year (1978), ABHP certified (1961-recertified '85, '89, '93, '97, '01, '05, '09), Arthur F. Humm Jr. Award (1989), William McAdams Outstanding Service Award (1999), HPS Founders Award (2010)