

VITA

D. RICHARD “Rip” ANDERSON, PhD.

POSITION: Retired from Sandia National Laboratories, January 1, 2002
Consultant for Sandia National Laboratories, 2002- 2003
RHYM, LLC. 2003- 2009
Nuclear and Regulatory Support Services, LLC.
2009- 2010

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SUMMARY OF QUALIFICATIONS:

Dr. Anderson is an internationally recognized expert in risk and performance assessment. As Manager of the WIPP Performance Assessment Department at Sandia National Laboratories, Dr. Anderson has led in construction and preparation of performance assessment analysis for a compliance certification application to EPA that led to the opening of the first deep geologic repository for radioactive wastes in the U.S. Dr. Anderson has led numerous waste disposal and management efforts, including but not limited to the Subseabed High Level Waste Project (an international effort with significant stakeholder involvement), the FUSRAP Disposal Program, and the Decommissioned Nuclear Submarine Program. Dr. Anderson led the performance assessment work underlying the systems prioritization method, a project to prioritize research activities for WIPP, and has directed development nationally and internationally recognized methods for expert judgment elicitation treatment of uncertainty and decision structuring for performance assessment.

Dr. Anderson served as Chairman of the NEA/OECD Subseabed Disposal Coordination Bureau and the Human Intrusion Working Group of the Performance Assessment Advisory Group of NEA/OECD. Additionally he was Director of the Executive Committee of DOE Subseabed High Level Waste Program. Current position is Project Manager for Sandia activities supporting the Waste Isolation Pilot Plant, construction and preparation of an application to the Environmental Protection Agency in October 1996. Those activities include technical analysis, code development, quality assurance, testing, field and laboratory data analysis, geotechnical and geochemical analysis,

and incorporating those into performance assessment calculations for the Waste Isolation Pilot Plant. Member of the Waste Management Education Research Consortium, the American Nuclear Society, Sigma Xi, American Chemical Society, Sea Frontiers, the US WIPP Representative to the NEA/OECD Performance Assessment Advisory Board and Site Evaluation Group of the NEA/OECD. Also, the editor of a multinational journal, "*Radioactive Waste Management & Environmental Restoration*".

EDUCATION: B.S. Chemistry, Idaho State University, 1957
Ph.D., Theoretical Organic Chemistry and Chemical Oceanography, Oregon State University, 1961

EXPERIENCE: **Nuclear and Regulatory Support Services LLC**
Consultant, May 1, 2009

RHYM, LLC.

Staff Member, 2004 to April 2009.
Technical reviewer for the Yucca Mountain Project Total System Performance Assessment.

Sandia National Laboratories

Consultant, 2002-2003; Methods for cleanup of chemical, biological and nuclear attack on US cities (Dirty Bombs).

Acting director, 2000-2001; Nuclear Waste Management Programs Center
Develop new programs and manage the staff and budget for the Waste Isolation Pilot Plant, the Yucca Mountain Spent Fuel Repository Program and the Performance Assessment for the Hanford single and double- shelled tank clean up.

Senior Manager, 1999-2000; Program Development and Environmental Decisions Department
Develop new programs for SNL focusing on large multi-year cleanup programs and both international programs in Europe & Asia.

Department Manager, 1987-1999; WIPP Performance Assessment & Nuclear Waste Technologies
Served as the SNL Program Manager for the WIPP Performance Assessment and Compliance Certification to EPA. Application was accepted and the repository is now in operation.

Managed the INEEL spent fuel-PRA sensitivity analysis study which addressed the disposal of spent fuel in Yucca Mountain Tuff.

Department Manager, 1976-1987; Subseabed Programs
Served as project manager for the U.S. Subseabed High-Level Waste Assessment Program (SDP). Directed the U.S. SDP Program and led the international NEA/OECD coordination team which managed the international aspects of the program including the non-U.S. funding.

Supervisor, 1975-1976; U.S. Subseabed High-Level Waste (SDP)
Developed the U.S. and international long-term program plan for the SDP and developed the university teams that would perform some of the work. Assessed other geologic formations as possible locations for nuclear waste disposal.

Supervisor, 1969-1975; Polymer Research & Development Division
Managed a team of scientists who developed polymeric materials for all types of uses within the nuclear weapons.

Staff Member, 1961-1969
Developed polymeric materials for use in nuclear weapons.

Oregon State University, Corvallis, Oregon, 1957-61
Research Assistant

Editor-in-Chief, Radioactive Waste Management Journal, 1978-2001

Program Manager of the Seabed High Level Waste Management Assessment Program, 1976-1987

Program Manager of the Conasauga High Level Waste Assessment Management Program, 1976-1978

Program Manager of the Krypton-85 Gas Disposal Program, 1977-1979

Director, Executive Committee DOE Subseabed High Level Waste Disposal Program, 1975-1987

Contributor to the DOE Technical Alternatives document and to the Generic Environmental Impact Statement on Radioactive Waste Management, 1975-1977

Technical Program Coordinator for the International Seabed Working Group, Nuclear Energy Agency's Radioactive Waste Management Committee, 1977-1987

Chairman, Packaging Advisory Board, 1971-1975

Chairman, Review Board for Fast Response Materials Test, 1969-1972

Chairman, NEA/OECD SDP Coordinating Bureau, 1976-1987

Chairman, NEA/OECD Human Intrusion Working Group, 1990-1992

Member NEA/OECD Performance Assessment Advisory Group

WERC (Waste Management Education Research Consortium)
Board Member

WERC--Proposal Review Committee, 1989-1991

PROFESSIONAL SOCIETIES:

American Nuclear Society
Sigma XI--Honorary
American Chemical Society
Sea Frontiers
Futures Society

PUBLICATIONS:

Close to 50 publications and patents in the fields of Risk Assessment, Performance Assessment, Chemistry, Radioactive Waste Disposal, Nuclear Waste Repository Development, Oceanography, and Hybrid Energy Saving Systems.

COMMUNITY AND VOLUNTEER WORK:

Scientific Advisor and Virgil to author Gwyneth Cravens for a book about energy and the nuclear fuel cycle published on October 30, 2007 by Alfred A. Knopf and Co. entitled *Power to Save the World: The Truth About Nuclear Energy*.

Foothill Neighborhood Association, board member, 1996-present.
Representative to South Valley Coalition of Neighborhood Associations, 1998-present.

Founder and President, board of directors, South Valley Agricultural Services, Co., Inc., a 501(c) 3, a non-profit organization, 2006 to present.
Agricultural Preservation Taskforce, group leader working with Bernalillo County Staff and SV residents.
Volunteer farmer working on the Durand Open Space, farming with a small group of volunteers to create bird habitat on County owned land by the Rio Grande bosque-2005 to present.
Core group member working with New Mexico State University to establish an educational/research facility to support urban fringe agriculture in the South Valley of the Albuquerque area
Board member, Mid-Region Council of Governments Metropolitan Transportation Board's Public Involvement Committee, 2005-present
Chairman, Bernalillo County Impact Fees Capital Improvement Advisory Board, 2006-present.
Board member, Water Quality Protection Advisory Board, 2008-present
Volunteer work with Cub Scouts and Boy Scouts in the SV in the 1990's.

AWARDS

Nova Award from Lockheed Martin, June, 26, 1998.
The award recognizes his leadership in fostering teamwork within the nuclear waste management programs for Sandia National Laboratories and Lockheed Martin.

Presidential Citation from the American Nuclear Society, November 11, 2008.
For his valuable contributions to the nuclear science and engineering, particularly the use of probabilistic risk assessment techniques in the licensing of WIPP, and his role both personally and in guiding Gwyneth Cravens in support of the "Getting the Word Out." His dedication to the industry and environmental concerns are a great asset to humanity.

Ninth Annual Wendell D. Weart Lifetime Achievement Award in Waste Management, March 3, 2009.
The award recognizes his long-term commitment to solving major waste challenges, which may include education, research, public policy, or implementation of solutions for managing nuclear wastes, and whose actions have contributed to the resolution of significant nuclear waste management issues.