

LONGENECKER & ASSOCIATES

EXPERIENCE SUMMARY

Raymond G. Wymer

Dr. Raymond G. Wymer is an international expert on nuclear fuel cycle and non proliferation issues.

Dr. Wymer was employed by Oak Ridge National Laboratory in the Chemical Technology Division from 1953 until his retirement in 1991. During his employment at ORNL he was involved in research and development in all aspects of the nuclear fuel cycle. He became Director of the Chemical Technology Division, a chemical engineering division employing about 300 chemical engineers, chemists, technicians and support staff.

Dr. Wymer has consulted extensively in the areas of radioactive waste management and site remediation for DOE and its contractors. He has had extensive consulting experience at Hanford with the Tank Waste Remediation Systems program. He assists DOE and its contractors in program reviews. He has served on committees evaluating the storage of DOE fuels in the proposed Yucca Mountain High-Level Waste Repository and chaired a committee evaluating potential vitrification processes for Hanford tank wastes.

Dr. Wymer has served on numerous committees and workshops of the National Academy of Sciences that deal with DOE's waste management and site remediation activities and closure activities, and chaired one of the committees. He has chaired reviews of the Chemical Technology Division of Argonne National Laboratory and the Nuclear Science and Technology Division Oak Ridge National Laboratory.

Dr. Wymer completed a six year membership on the Advisory Committee on Nuclear Waste for the Nuclear Regulatory Commission in March, 2003. This committee, which reports directly to the NRC Chairman, advises the Commission on the relevance and adequacy of the NRC staff's activities in the nuclear waste area and alerts the Commission to areas that it should be paying attention to. The committee placed particular emphasis on radioactivity release issues associated with the proposed Yucca Mountain repository.

Dr. Wymer's other activities have included consulting with DOE, the U.S. Department of State and the International Atomic Energy Agency on matters of nuclear non-proliferation in the areas of nuclear fuel reprocessing and uranium enrichment by chemical exchange processes. He served on a United Nations UNSCOM team to Iraq in the mid-1990s evaluating Iraq's uranium enrichment capability by chemical exchange. He is currently a consultant for Oak Ridge National Laboratory in the National Security

Directorate and in the Nuclear Science and Technology Division on the Depleted Uranium Uses Research and Development Project. He is currently the technical lead for evaluating the technical soundness of the Demonstration Bulk Vitrification System at the Hanford site in Richland, WA. He is also leading preparation of a "White Paper" on spent nuclear fuel reprocessing for the Advisory Committee on Nuclear Waste of the Nuclear Regulatory Commission.

Dr. Wymer has been a member of the Chemistry Working Group of the Nuclear Energy Agency, which is an agency of the Organization for Economic Cooperation and Development. In this capacity he was the principal author of an NEA publication on chemistry of the actinides in waste management.

Dr. Wymer is co-author of a book "Chemistry in Nuclear Technology" and edited a book on "Light Water Reactor Fuel Reprocessing." He was an editor of the journal *Radiochimica Acta* for over ten years until his retirement. He has written numerous reports and open literature publications on all aspects of the nuclear fuel cycle and has contributed technical articles for incorporation in encyclopedias. He has organized and contributed to symposia and workshops in his areas of expertise.

Dr. Wymer has received recognition for his contributions in the nuclear area, including the Robert E. Wilson Award in Nuclear Chemical Engineering from the American Institute of Chemical Engineers. He is a Fellow of the American Nuclear Society and a National Associate of the National Academies of Science.

Dr. Wymer was born on October 1, 1927 in Colton, Ohio. He received his B.S. degree from Memphis State University, and his M.S. and Ph.D. degrees in chemistry and physics from Vanderbilt University. Dr. Wymer and his wife Kenalene reside in Oak Ridge, Tennessee.