

William E. Harrison III
Senior Advisor, Clean Fuels Initiative
Office Deputy Under Secretary of Defense
Advanced Systems and Concepts
Washington DC

Mr. William (Bill) Harrison joined the staff of the Deputy Under Secretary of Defense for Advanced Systems and Concepts in November 2004 as a technical advisor to help establish a new initiative in the Office of the Secretary of Defense (OSD) – the Clean Fuels Initiative. His current focus is program planning for the Joint Battlespace Use Fuel of the Future (J-BUFF) Program, which will evaluate, demonstrate, certify and implement clean fuels produced from secure, diverse, domestic resources for use in all military tactical vehicles, aircraft and ships and the Total Energy Development Program (TED) to catalyze the industry to produce clean fuels from alternative and unconventional resources for the BUFF program. He also serves as a liaison to the Department of Energy to establish joint programs for the Department of Defense to use fuels from alternative and unconventional resources.

He is on loan to OSD from the United States Air Force where for the past 12 years he has been Chief, Fuels Branch, Turbine Engine Division, Propulsion Directorate, Air Force Research Laboratory, Wright-Patterson, AFB Ohio, where he directed all the technical, financial, and administrative aspects of research and development of aerospace fuels for all Air Force airbreathing propulsion systems (turbine, ramjet, scramjet) and hydrocarbon fueled rockets. He led basic research, exploratory development, and advanced development programs at the National Aerospace Fuels Research Complex (NAFRC) to develop advanced high heat sink fuels, improved low temperature fuels, reduced pollutant emissions fuels as well as related technologies including applications of bio technology, nano technology, development of advanced fuel diagnostic equipment, computational chemistry tools, advanced fuel system visualization, modeling and simulation techniques.

Mr. Harrison has experience in fuel logistics and served as the Deputy Commander, Air Force Petroleum Office from mid 2002 and early 2003; duties which he served concurrently with his job as Branch Chief in the Air Force Research Laboratory. As a research leader and program manager in the Air Force Research Laboratory he has been responsible for the development and implementation of a fuel thermal stability additive “+100”, an endothermic fuel system for the HyTech Mach 6+ propulsion system, development of high energy density fuels and fuel slurries for cruise missiles, the evaluation of fuels produced from oil shale, tar sands, coal and heavy oils, the development of advanced fuel diagnostic techniques, and provided oversight for all DoD fuel specifications, standards and qualified products lists.

Mr. Harrison has authored or co-authored 50 technical papers and a book chapter on the Composition of Shale Derived fuel samples. He is a member of the Coordinating Research Council, a member of the Steering Committee for the Consortium for Fossil Fuel Science, Friend of the Committee on Environmental Impacts of Aviation of the National Research Council and an active member of the American Chemical Society where he has chaired nine national and one regional symposia.

Mr. Harrison has received many awards and decorations including the Dayton Affiliates Council Award for Outstanding Professional Achievement, Nomination for Manager of the Year, Wright-Patterson AFB Chapter of the National Management Association, the Meritorious Civilian Service Award, Military Reservist Supervisor of the Year, and seventeen Air Force Performance Awards.