



## Biography

### David J. Nagel



David J. Nagel received a B.S. degree in Engineering Science (Magna Cum Laude) from the University of Notre Dame (1960), and an M.S. degree in Physics (1969) and a Ph.D. in Materials Engineering (1977), both from the University of Maryland at College Park. During more than half a century, Dave has had four successful careers, and recently began a fifth.

**Officer in the U.S. Navy:** After graduating first in his Naval ROTC class, he had four years of active duty and 26 years of reserve service, including three tours as a Commanding Officer. He retired in 1990 with the rank of Captain in the U. S. Naval Reserve.

**Federal Research Scientist:** After his active duty, Dave joined the civilian staff of the Naval Research Laboratory as an experimental physicist. He measured the x-ray emissions from nuclear weapons, other multi-million degree plasmas and energetic atomic collisions. He co-invented plasma x-ray lithography. During these 20 years, Dave published in top journals, such as Physical Review Letters.

**Federal Research Leader:** Dave served as a head of a materials physics group for 13 years. Then, he became a member of the Senior Executive Service and leader of a nuclear and solid-state physics division for 13 years. Dave managed the global experimental and theoretical research and development efforts of 150 government, contractor and other personnel, including 80 Ph.D. scientists, with an annual budget of \$30M.

**University Teacher and Researcher:** For the last 14 years, Dave has been a Research Professor in the Department of Electrical and Computer Engineering within the School of Engineering and Applied Science of The George Washington University. He taught graduate level courses on MEMS and NanoTechnology. Now, Dave mentors both undergraduate and graduate students. His current research centers on low energy nuclear reactions (LENR) and noise in solar cells. He has participated in all of the ICCF and chaired ICF-

14 in Washington DC in 2008.

Business Developer: In 2011, Dave founded two companies. The first, NUCAT Energy LLC, provides short courses, educational materials and consulting services on LENR. The second is OptoBioSense LLC, a spin-off from the GWU. It seeks to develop inventions, which were made with a recent Ph.D. student, into a point-of-care analyzer for uric acid in clinical samples.