
Julie A. Christodoulou, Ph.D.



**Director of the Naval Materials Division, Sea Warfare and Weapons Department
Office of Naval Research**

Dr. Julie Christodoulou is Director of the Naval Materials Science and Technology (S&T) Division in the Sea Warfare and Weapons Department of the Office of Naval Research (ONR). She is responsible for research programs in materials and processing capabilities for the superiority, reliability, affordability and environmental quality of naval platforms and systems with an annual budget of ~\$80M.

Dr. Christodoulou entered the Senior Executive Service in June 2007 and has 15 years of Federal Service.

Dr. Christodoulou also is the S&T Executive for the Future Naval Platform pillar Enterprise and Platform Enablers, a transition-driven ~\$60M/year portfolio to provide cross-cutting technologies to lower acquisition, operations, and maintenance costs while addressing warfighter capability gaps. She is a member of the triumvirate leadership team for the national Materials Genome Initiative for Global Competitiveness announced by President Obama in June 2011. Among other national and international coordination responsibilities, she is the Navy Principal to the Department of Defense Materials and Processes Community of Interest for Materials, which she chaired from 2007 through 2010.

Dr. Christodoulou joined ONR in 2002 as the Program Officer for Structural Metals and conceived, established funding, initiated and led a number of successful basic and applied research efforts aimed at damage tolerant naval steels, friction stir welding of high strength steels, novel concepts for materials systems to enable hypersonic vehicles, the *Dynamic 3-D Digital Structures* program and others. From October 1999 through October 2002, she researched high temperature materials for the Naval Surface Weapons Center – Carderock Division (NSWC-CD) with a joint appointment to ONR supporting research in dielectric materials and the control of spins in semiconductors with the Defense Advanced Research Project Agency. Prior to ONR and NSWC-CD,

Dr. Christodoulou held several positions in industry and the naval research community. These include Materials Researcher for Martin Marietta Laboratories investigating processing-performance relationships in intermetallic systems for high temperature applications and ceramic dielectrics for energy-dense capacitors; Metallurgist for the Naval Research Laboratory for

environmental effects on performance; and Associate Director for Structural Metallics at ONR-Global, a part-time international technical liaison position while studying toward her doctorate degree.

Dr. Christodoulou earned her bachelor's of science degree with honors in metallurgical engineering from the University of Texas at El Paso in 1988, her master's of science degree in materials science and engineering from the Johns Hopkins University in 1995, and her Ph.D. in materials science from Imperial College, London under the guidance of Prof. Harvey Flower in 1999. She has been recognized with three Exception Performance Awards and two Certificates of Commendation during her tenure with the Department of the Navy, and The Technical Cooperation Program Achievement Award in 2009.