

## Ming-Jen Pan, Ph.D.

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Dr. Ming-Jen Pan is a Science Director at the Office of Naval Research Global in Tokyo, Japan. In this capacity, he works to build collaborative relationship with Asia-Pacific countries to advance science and technology that are of potential interest to the U.S. Navy. He is interested in innovative basic research in materials science, including low dimensional materials, piezoelectric materials, ferroelectric materials, composite materials, energy generation and storage, energetic materials, and additive manufacturing.

Prior to joining ONR Global, Dr. Ming-Jen Pan was the Head of the Ceramics and Rapid Prototyping Section at the Naval Research Laboratory and a Program Officer in the Naval Materials Division of the Office of Naval Research. He was responsible for the conceptualization, planning, and execution of research programs in electronic materials, including relaxor piezoelectric single crystals, crystal-based SONAR transducers, nanocomposites for pulsed power applications, and high voltage characterization methodology. He has extensive experience in intra/inter-agency coordination of research activities, technology transitions, as well as international collaborations.

Prior to joining the Naval Research Enterprise, Dr. Pan was in the private sector performing research in high energy density capacitors, multilayer piezoelectric actuators, composite ultrasound transducers, thin/thick film deposition, constitutive behaviors of electroactive ceramics, and lifetime prediction. Conducting R&D in an industrial environment, he developed several commercial products, established the production procedures, and provided customized solutions. He also previously worked as a research faculty at the Pennsylvania State University.

Dr. Pan graduated from National Cheng Kung University in Tainan, Taiwan with a B.S. degree in Naval Architecture and Marine Engineering. He received his Ph.D. degree in Engineering Mechanics with a minor in Ceramics from The Pennsylvania State University where his research focused on the structure-property relations in ceramic matrix composites. Dr. Pan is a member of the American Ceramic Society and the Institute of Electrical and Electronics Engineers (IEEE).