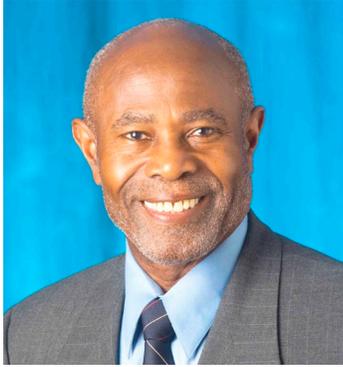


Prof. Cardinal Warde



Dr. Cardinal Warde is a professor of electrical engineering at the Massachusetts Institute of Technology (MIT), and is one of the world's leading experts on materials, devices and systems for optical information processing and displays. His current research is focused on the development of opto-electronic neural-network co-processors that give computers brain-like computing power, and on membrane-mirror-based spatial light modulators for optical switching and projection displays. His earlier research contributions are on transparent liquid-crystal micro-displays for virtual-reality eyeglasses, and spectro-polarimetric imaging sensors for remote-sensing applications. Professor Warde holds 12 patents on spatial light modulators, displays, and optical information processing systems, and has published over 150 technical papers and three textbook chapters in these areas.

In addition to his teaching and research activities, Professor Warde serves (since 1997) as the Faculty Director of the Office of Engineering Outreach Programs (OEOP) at MIT. MITES, the flagship program of the OEOP, is a six-week intensive program in science and engineering for gifted underrepresented minority high-school seniors. Dr. Warde is also active in encouraging Caribbean youth to pursue careers in science and engineering. In this role, he serves as the president of the Caribbean Diaspora for Science, Technology and Innovation (CADSTI - <http://caribbeanscience.org/cadsti/>), and as Interim Executive Director of the Caribbean Science Foundation (CSF - <http://caribbeanscience.org/>). CADSTI and the CSF are focused on stimulating science and engineering-based entrepreneurship, and assisting with the implementation of STEM education reform to promote more science and technology for the economic development of the Caribbean.

As a former entrepreneur, Dr. Warde founded Optron Systems in 1982, and co-founded Radiant Images in 1999 which was subsequently acquired by Hoya, a multi-national high-tech healthcare company based in Japan. He has served on the US National Science Foundation Small Business Advisory Committee, on the Board of Trustees of the Stevens Institute of Technology, and as a scientific advisor to the Governments of Barbados and Belize.

Professor Warde earned a BSc. degree in physics in 1969 from the Stevens Institute of Technology, and the MPhil and PhD degrees in physics from Yale University in 1971 and 1974, respectively. He is a fellow of the Optical Society of America and a former associate editor of the Journal of Display Technology. He also holds two honorary doctorates in science: one from the University of the West Indies, Barbados Campus in 2008, and a second from Universidad Carlos III de Madrid in 2009. He has received numerous other honors and awards for his achievements in science and engineering.