



Orlando Auciello is Endowed Chair Professor at the University of Texas-Dallas (Materials Science/Engineering and Bioengineering Departments).

Auciello graduated with M.S. (1973) and Ph.D (1976) degrees in Physics from the Physics Institute “Dr. Balseiro” (Universidad Nacional de Cuyo, Argentina). He also studied Electronic Engineering at the University of Cordoba-Argentina (1964-1970).

Auciello was a Researcher at the University of Toronto-Canada (1979-1984), Associate Professor at North Carolina State University (1985-1988), and Senior Research Scientist at the Microelectronics Center of North Carolina (1988-1996). He was a Senior Scientist at Argonne National Laboratory (1996-2005) and then a Distinguished Argonne Fellow (2005-2012). He is an Adjunct Professor at University of Colorado-Colorado Springs and Michigan State University.

He is directing basic and applied research programs on different fields, involving multi-component oxide thin films and application to systems and devices (ferroelectric memories, resistive change memories, nanoscale CMOS devices, photovoltaic energy generation / storage devices, high-frequency devices, piezoelectric thin films for MEMS/NEMS sensors and actuators); and nanocarbon thin films (ultrananocrystalline diamond (UNCD) and graphene films) and applications to industrial, electronics, MEMS/NEMS, and implantable medical devices). The UNCD film technology is now commercialized for industrial components and systems by Advanced Diamond Technologies (ADT), a Company founded by Auciello and Carlisle, spun-off from Argonne in 2003, and by Original Biomedical Implants (OBI), a company founded by Auciello and Gurman (MD), in 2013, for commercializing a new generation of UNCD-coated implantable medical devices and medical treatments based on nanotechnology.

Auciello has edited 20 books on various topics, published about 500 articles in the fields described above, holds 20 patents, and organized, chaired, and lectured at numerous national and international conferences. He is associate editor of Appl. Phys. Lett., Integrated Ferroelectrics, and editor of two book series on thin films and applications to devices (Academic Press). He was member the Materials Research Society (MRS) Board of Directors (2000-2003), Co-Chair MRS International Relations Committee, and Vice President of the MRS in 2012, President of the MRS in 2013, and Past President of the MRS in 2014.

He has numerous Awards, including seven R&D 100 Awards, 2003 Hispanic Engineering National Achievement Award, 2006 Federation of National Laboratories Award, 2008 University of Chicago Distinguished Performance Award, and is a Fellow of the AAAS and MRS.

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