JAMES CASTRACANE, PH.D.
Professor and Head, Nanobioscience Constellation

Dr. Castracane is Professor and Head of the Nanobioscience Constellation at the SUNY College of Nanoscale Science and Engineering (CNSE), and Director of the New York State Center for Advanced Technology in Nanomaterials and Nanoelectronics ($CATN^2$). In addition, he is a founding faculty member of CNSE and has helped grow the faculty and graduate student ranks since the College's inception. Dr. Castracane received his BS degree in Physics from Canisius College (1976) and his Ph.D. in Physics from The Johns Hopkins University (1982). He has more than two decades of experience in fundamental research and development in the areas of plasma physics, MEMS, biomedical instrumentation, optoelectronics, and cross-disciplinary system integration. Dr. Castracane has received research funding from numerous federal agencies including NIH, NSF, DOD, DOE, DARPA and NASA and has a significant portfolio of state and corporate sponsors. His publication record spans over 100 articles, numerous invited or keynote presentations and 10 patents issued/pending. Dr. Castracane is a member of APS, OSA and SPIE and is a Founding Fellow of the American Academy of Nanomedicine.

Dr. Castracane's research interests encompass fundamental materials science, nanobioscience, optoelectronics, MEMS, and emerging fields such as molecular electronics and spintronics. Under his guidance, CNSE has assembled a multi-faceted Nanobioscience program to establish the critical technologies for effective integration of tailored biochemistries of cells/tissues/proteins with innovative nanofabricated structures.

Prior to joining CNSE in 1998, Dr. Castracane's private sector experience involved positions at high technology R&D companies including as Chief Operating Officer at InterScience, Inc. from 1994-98. In his current position as $CATN^2$ Director, Dr. Castracane has continued to assist in the development of the business potential of numerous companies through technical interactions and management counseling.

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