
MCGOWAN, JOSEPH C., PHD, PE, T: Founder, President, Chief Executive Officer, and Principal Engineer **CN:** McGowan Associates Inc. **DOB:** 09/11/1954 **PB:** Alexandria **SC:** VA/USA **PT:** Joseph C McGowan Jr.; Jennie J. McGowan **MS:** Married **SPN:** Jane E. McGowan, MD **CH:** Joseph C. McGowan IV; Alessandra Meghan McGowan **ED:** PhD in Bioengineering, University of Pennsylvania (1993); MS in Engineering, University of Pennsylvania (1990); BS in Mathematics, United States Naval Academy (1976) **CT:** Licensed Professional Engineer (PE), Pennsylvania, New York, Louisiana, and Delaware; Ship's Engineer of a United States Navy Nuclear Submarine; Senior Reactor Operator of a General Electric BWR; Senior Offshore Skipper of a US Navy Large Offshore Training Yacht (D Command, United States Navy) **CAR:** Founder, Chief Executive Officer, and Principal Engineer, McGowan Associates Inc., Merion Station and Bala Cynwyd, PA (2011-Present); President, McGowan Associates (2011-2024); From Managing Engineer to Senior Managing Engineer, Exponent, Inc. (2006-2011); Associate Professor of Electrical Engineering and Captain, United States Navy, United States Naval Academy (2000-2006) Research Assistant Professor, University of Pennsylvania Perelman School of Medicine (1994-2000); Senior Engineer, General Electric Nuclear Energy, Startup and Test Engineer at Limerick Nuclear Generating Station (1983-1989); Instructor and Division Director, Navy Nuclear Power School (1981-1983) **CR:** Visiting Research Professor, Drexel University School of Biomedical Engineering, Science and Health Systems (2007-Present); Editorial Board, American Journal of Neuroradiology (2000-2020); Adjunct Professor of Mechanical Engineering, Temple University (2011-2012); Lecturer, Princeton University (2006-2009) **CIV:** Church Musician and Music Director; Supporter, Opera Philadelphia, The Philadelphia Orchestra **MIL:** Captain, US Navy, and Associate Professor of Electrical Engineering, United States Naval Academy (2000-2006); Captain, Commanding Officer, Office of Naval Research Science and Technology Headquarters 106 (1998-2000); Captain, Commanding Officer, Office of Naval Research Science and Technology 406 (1996-1998); Commander, Executive Officer, Office of Naval Research Science and Technology 406. Lieutenant, Director of Reactor Plant Technology Division, United States Navy Nuclear Power School (1981-1983); Lieutenant, Damage Control Assistant and Ship's Diving Officer, USS James K. Polk SSBN 645, 3 Strategic Deterrent Patrols; LTJG, Electrical Officer, USS James K. Polk SSBN 645, 3 Strategic Deterrent Patrols. **CW:** Professional Singer, Classical Baritone; Numerous Articles in various Academic and Professional Journals, Books and Publications. **AW:** Three-time Recipient, United States Meritorious Service Medal, Office of the President of the United States (1998, 2000, 2006); Editor's Excellence Award for Outstanding Scientific Research, Journal of Computer Assisted Tomography (1997); Director's Award, National Institutes of Health (Shannon Grant, 1995); Training Grant Fellowship, National Institutes of Health (1992); Two-time Recipient, Navy and Marine Corps Commendation Medal; Joint Meritorious Unit Commendation; Navy Unit Commendation; National Defense Service Medal (three awards); Global War on Terrorism Award; Navy Sea Service Award; Navy and Marine Overseas Service Ribbon; Armed Forces Service Medal; Navy Battle E award, Expert Rifleshot Medal; Expert Pistolshot Medal; Naval Submarine Officer Badge; Submarine Deterrent Patrol Pin (6 Patrols); Navy Craftmaster Pin. **MEM:** Tau Beta Pi, the Engineering Honor Society; Sigma Pi Sigma, The Physics Honor Society; Past Chair, International Society of Magnetic Resonance in Medicine, White Matter Study Group; Senior Member, IEEE; ASTM International; Society of Automotive Engineers; National Society of Professional Engineers; Pennsylvania Society of Professional Engineers; Vice Chancellor Honoraire, Commandeur, Confrerie de la Chaîne des Rôtisseurs (international gourmet society); Commandeur, Commanderie Côtes du Rhône (international wine society); **MH:** Who's Who in Engineering and Science **AS:** Dr. McGowan feels fortunate to have worked with and for many magnificent individuals, including his high school math teacher Louis Kokonis, as well as professional Naval officers including Rear Admiral Gerald Talbot, and academic mentors including Dr. Britton Chance, Dr. Maria Delivoria-Papadopoulos, Dr. John S. (Jack) Leigh and Dr. Robert I. Grossman. **B/I:** Following rewarding positions in academics, the military, and engineering consulting, Dr. McGowan created an engineering consulting company to serve clients within the areas of bioengineering, biomechanics, and medical device testing, and to recruit, train, and lead a high quality team of engineers and related professionals. **HC:** Dr. McGowan contributed to the defense and security of the United States as a Navy Submarine Officer during the Cold War. He continued his service in the United States Naval Reserve as he undertook an academic career in parallel. Highlights of his Naval Service included his two tours as Commanding Officer of units within the Office of Naval Research (ONR), including the senior Naval ONR Reserve Unit, as his service as a professor at the United States Naval Academy. His academic career at the University of Pennsylvania and the United States Naval Academy, along with continued research following those positions, resulted in more than 100 publications that have been cited more than 2500 times. As a professor he made a positive impact on the lives of many students, graduate fellows, and colleagues. As a retired Naval Officer he continues to this day to support and defend the constitution of the United States of America. Highlights of his service leading McGowan Associates have included participating as an Expert in trials to verdict in federal and state courtrooms as well as seeing scientists and engineers, trained in his employ, be admitted as Experts and brilliantly serve the needs of their clients. Test results obtained by his team have supported FDA approved labeling for medical devices including heart valves, orthopedic devices, and surgical equipment. **AV:** Musician: Performed as a baritone soloist (Mendelssohn's Elijah, Orff's Carmina Burana, Handel's Messiah and others) Performed as a baritone singer and chorister numerous occasions with the Philadelphia Orchestra and opera companies in Orlando, Florida; Tulsa, Oklahoma; Annapolis, Maryland, and Philadelphia Pennsylvania. Performed as a chorister with Andrea Bocelli on twelve occasions, including twice in Madison Square Garden; performed on tour with Michael Crawford; New York choral performances in Carnegie Hall, The Beacon Theater and Radio City Music Hall. Director, The Tulsa Carolers; Skilled singer of maritime music (sea chanties); Skilled barbershop harmony singer; National Silver medalist and Regional Gold medalist, barbershop chorus; Regional Silver medalist barbershop quartet; Rowing: 1976 Intercollegiate Rowing Association National Championship, Varsity Heavyweight Four with Coxswain; 1973 Intercollegiate Rowing Association Silver Medal, Freshman Heavyweight Four with Coxswain. Sailing: Sailing skipper and instructor, offshore sailing instructor for United States Naval Academy. Racing skipper and navigator. Shellback; Other: Avid home cook and baker and wine enthusiast, and a skilled hunter. Enjoys international travel. Enjoys studying and speaking the French language. **PA:** Independent **RE:** Roman Catholic **URL:** www.linkedin.com/in/joseph-c-mcgowan-phd-pe-7683977/ **THT:** Dr. McGowan has been privileged to be husband to a wonderful woman and father to two extraordinary children. His wife is a retired world class physician who led the Neonatal Resuscitation Program of the American Academy of Pediatrics and served as Director of the Neonatal Intensive Care Unit at St. Christopher's Hospital in Philadelphia. Dr. McGowan's son Joseph C. McGowan IV is pursuing a PhD in physics, specifically experimental quantum physics, at the University of Toronto. He studies exotic phenomena associated with ultracold gases in ultrahigh vacuum. In his spare time he's a great cook, a concert level pianist, and a singer with the Toronto Mendelssohn choir. Dr. McGowan's daughter Alessandra Meghan McGowan is Operations Manager for an education-oriented Canadian non-profit company. She is responsible for obtaining grant support, managing personnel and resources, and coordinating all programming in support of a mission to serve indigenous children in remote locations. She is an extraordinarily successful debate coach with multiple high school national championships won by students under her guidance.
