

Andrew Dennis “Andy” Hibbs was born in 1963 in Shrewsbury, England. He attended the University of Cambridge where he pursued a Master’s Degree in Engineering while acting as the captain of his rowing crew at Christ College, coaching girls’ rowing, and serving as a math and physics tutor. His graduate work focused on the properties of the then newly-discovered high-temperature superconductors, and he was awarded a PhD in Physics in 1989.

Andy began his career with Quantum Magnetics (QM) in San Diego. He became the President and CEO of QM in 1994, and in less than one year, Andy solidified one of the most significant deals in the industry by signing an agreement with IBM to make their extensive superconducting technology portfolio available for commercial development through QM. This joint licensing and development agreement brought together much of the world's leading scientific talent in high-Tc superconductivity for the benefit of the commercial market.

Andy left QM in 1998 to found Quantum Applied Science & Research (QUASAR), Inc., which went on to become a leading firm in the low-frequency electromagnetic (EM) sensing community. Under Andy's direction, QUASAR developed and introduced new types of electromagnetic sensing systems that go beyond traditional modalities. In addition, Andy led a number of advancements in the EM sector, including the first free-space electric-field sensor, the first system to measure all six components of the free-space electromagnetic vector, new methods to measure ionic currents in cells and transmembrane proteins, and new techniques to noninvasively measure bioelectric signals such as heart rhythm and brainwaves.

In 2005, Andy spun out QUASAR Federal Systems from QUASAR to address needs in the defense and geosciences industries. He led QFS during technical efforts that resulted in the following advancements:

- First 3-axis E-field sensor
- First 6-axis (3 E + 3B) low frequency electromagnetic (vector) sensor
- First airborne 3-axis E-field sensor
- First single station lightning location system
- First Poynting Vector direction finding system
- First airborne 6-component EM surveillance system
- Most sensitive underwater E-field sensor
- First 6-component underwater EM receiver
- First true ground-independent geophysical electrode

Andy’s innovations and inventions are too numerous to list. Earlier in his career, he worked on superconductors, landmine detection, and explosives detection for airline security, and his later innovations include sensing systems for applications ranging from sniper detection, lightning strike location, heart and brain signal collection, DNA sequencing, epilepsy monitoring, and oil exploration and production process monitoring, among others. He contributed numerous articles to journals and conferences, was invited to submit several book chapters, often served as a scientific peer reviewer, and is a named inventor on over 20 patents and applications in the US and abroad. His many awards include the R&D 100 Award in 1992, 1995 and 2010, the TR

100 Award from MIT Technology Review and the Technology Innovation of the Year Award from Aviation Week & Space Technology in 1997, Technology of the Year Award, Sensors Category, Small Business Innovation Research (SBIR) in 1998, and Grand Winner of the SBIR Technology of the Year Award in 1999. Most recently, he was awarded Gold at the World's Best Technology Marketplace competition.

Andy was a natural leader who built effective teams using positive feedback to guide the development and production of new technologies. He mentored employees, creating an atmosphere that encouraged everyone to try new things and take on new tasks and responsibilities. His attitude and support gave teams the vision to successfully pursue goals and achieve milestones.

Andy passed away suddenly and unexpectedly on Jan. 8, 2015, leaving behind his wife, 4 children, his mother and father, his sister and brother, and his 5 companies, QUASAR, QUASAR Federal Systems, Advanced Neurometrics, Electronic Biosciences, and GroundMetrics. Benefiting from the solid foundations he laid and the talented teams he assembled, mentored and inspired, these companies will remember him by continuing his tradition of innovation and achievement.