

**Dr. Ken Gabriel**  
**Deputy Director**  
**Defense Advanced Research Projects Agency**

Dr. Kaigham (Ken) J. Gabriel was appointed Deputy Director of DARPA, July 22, 2009. Prior to that, Dr. Gabriel was the founder, chairman and chief technology officer of Akustica, a fabless semiconductor company commercializing micro-electrical mechanical systems (MEMS) sensors for consumer electronics products. Akustica, based in the US, pioneered the use of digital silicon microphones for the PC/notebook industry. Since founding the company in late 2001, his responsibilities focused on managing continued technology innovation, product development, manufacturing, and business execution of the company.

In 2003, Dr. Gabriel was named a Technology Pioneer by the World Economic Forum at Davos, one of 40 selected worldwide. He is the co-founding Executive Director of the MEMS Industry Group, the principal trade organization representing the MEMS industry globally. He is widely regarded as the architect of the MEMS industry.

From 1992 to 1997, Dr. Gabriel was at the Defense Advanced Research Projects Agency. In 1992, he was recruited to start the agency's MEMS Program and grew the effort from zero to over \$80 million a year with over 70 projects. He was then promoted to Director of the Electronics Technology Office (1996-1997) where he was responsible for nearly \$450 million annually in electronics technology programs including advanced lithography, electronics packaging, MEMS, optoelectronics, millimeter and microwave integrated circuits, and high-definition displays.

Prior to his government service, Dr. Gabriel was at AT&T Bell Labs in the Robotic Systems Research Department, where he pioneered the field of MEMS and started the silicon MEMS effort, leading a group of researchers in exploring and developing IC-based MEMS for applications in photonic and network systems. During a sabbatical year from Bell Labs, Dr. Gabriel was a Visiting Associate Professor at the Institute of Industrial Science, University of Tokyo in Japan, where he led joint projects at IBM Japan Research, Toyota Central Research Laboratories and Ricoh Research Park. After leaving Bell Laboratories in 1991, he spent a year as a visiting scientist at the Naval Research Laboratory transferring micromechanics processing technology to the Nanoelectronics Processing Facility.

Dr. Gabriel holds an S.M. and a Ph.D. in Electrical Engineering and Computer Science from the Massachusetts Institute of Technology.