

# DONALD K. SMITH

Energetiq Technology, Inc.  
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## EDUCATION

B.S. Physics, Davidson College, 1975.

M.S. Electrical Engineering, University of Wisconsin, 1976.

Ph.D., Electrical Engineering, University of Wisconsin, 1980.

## PROFESSIONAL EXPERIENCE

**Research Scientist** **1980 to 1981**  
**University of Wisconsin**  
Fusion energy plasma physics research.

**Research Scientist** **1981 to 1987**  
**MIT Plasma Fusion Center**  
Fusion energy plasma physics research.  
Key contributor to the design, management and research of the TARA tandem mirror, a DOE funded linear magnetic confinement experiment.

**Founder, Director, and Vice President Advanced Technology** **1987 to 1999**  
**Applied Science and Technology, Inc.**  
Developed plasma devices and reactive gas generators for  
Semiconductor processing. Inventions and product development included atomic oxygen, atomic fluorine and ozone generators which are used on many etch and most CVD process tools in all major semiconductor manufacturing facilities.

**Founder and President** **1999 to 2000**  
**Compact Instruments, LLC**  
Developed portable helium leak detectors and miniature turbomolecular pumps and ion traps.

**Vice President and Chief Technology Officer** **2000 to 2004**  
**MKS Instruments, Inc.**  
Corporate responsibility for technology development and assessment of the technology of acquisition targets as part of MKS's expansion through many acquisitions over four years.

**President and Chairman** **2004 to present**  
**Energetiq Technology, Inc.**

## PROFESSIONAL SOCIETIES

Member American Physical Society

Member The Optical Society

## PATENTS

reactive gas sources, plasma devices, instrumentation, and vacuum technology.

### **PUBLICATIONS**

More than ten publications in peer reviewed scientific journals and many conference presentations.