



## **Janie Fouke,**

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Dr. Janie Fouke is the Dean of the College of Engineering at Nanyang Technological University. She earned her M.S. and Ph.D. degrees in biomedical mathematics and medical engineering from the University of North Carolina at Chapel Hill. She served as Dean of the College of Engineering at Michigan State University from 1999 to 2005. In 2005, she moved to the University of Florida as Provost and Senior Vice President for Academic

Affairs before assuming her last-held appointment as Senior Advisor to the President for International Affairs in 2008. Prior to that, she was the Founding Director of the Bioengineering and Environmental Systems Division at the National Science Foundation in Washington, D.C., from 1995 to 1999. Her teaching and research interests are in medical instrumentation design. Instruments that she has developed have been critical to the enhanced understanding of the etiology of airway diseases such as asthma and to the damage to the lungs caused by insults such as air pollution. Her work on the characteristics of airflow patterns in ventilators has helped premature babies survive until their lungs mature enough for them to breathe on their own.

Dr. Fouke has published over 100 peer-reviewed manuscripts and conference papers, book chapters, editorials, and proprietary reports. Her 2000 book, *Engineering Tomorrow*, received numerous awards including The Dexter Prize, given annually by the Society for the History of Technology for the single best book published during the preceding three years. She has participated on a number of high-profile scientific advisory boards in the United State, including the National Aeronautics and Space Administration (NASA), the Department of Defense, the Environmental Protection Agency, the National Science Foundation, and the National Institutes of Health. She is a consultant to various corporations and has been a consultant or advisor to governments and research organizations in more than 40 countries.

She is also a Fellow of the American Association for the Advancement of Science, the American Institute for Medical and Biological Engineering, the Institute for Electrical and Electronics Engineers, and the Biomedical Engineering Society.