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Margie L. Homer is the Co- Investigator of the Electronic Nose project at JPL. She obtained a B.A. in Chemistry from Swarthmore College, Pennsylvania in 1985 and then a Ph.D. in Physical Chemistry from the University of California at Los Angeles in 1993. She did her post-doctoral work at JPL in the Microdevices Laboratory where she worked on the Mars Oxidation Experiment; this work included developing organic film deposition methods for the sensing films. Her research interests include the development and application of chemical sensors.